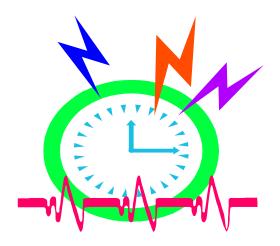


Clinical Reminders

Setup Guide

August 1999



Department of Veterans Affairs Technical Services Clinical Record Product Line

Contents

I.	INTRODUCTION	1
(Overview	1
	Where the Data for Reminders Comes From	2
	How Clinical Reminders and Health Summary use the data	4
	Clinician's Role in Clinical Reminders	
	Clinical Guidelines, NCHP, performance indicators, and preventive medicine mandates	6
II.	SETTING UP CLINICAL REMINDERS	7
A	A. CLINICAL REMINDERS OPTIONS	8
	Reminder Maintenance Menu	
	Copying and Editing a Reminder [PXRM REMINDER COPY]	25
	List Reminder Types Logic [PXRM REMINDER TYPES LOGIC]	
	Reminder Reports [PXRM REMINDER REPORTS]	
	List Taxonomy Definitions [PXRM TAXONOMY LIST]	
	Inquire about Taxonomy Item [PXRM TAXONOMY INQUIRY]	
	Edit Taxonomy Item [PXRM TAXONOMY EDIT]	
	Copy Taxonomy Item [PXRM TAXONOMY COPY	
	Activate/Inactivate Taxonomies [PXRM (IN)/ ACTIVATE TAXONOMIES	
	Reminder Exchange [PXRM EXCHANGE]	
	3. Implementing Clinical Reminders	
	C. Health Summary Example	
Ι	O. CLINICAL REMINDERS WORKSHEETS	
	1. Clinical Reminders at a Glance	
(CLINICAL REMINDERS AT A GLANCE WORKSHEET INSTRUCTIONS	
	2. Clinical Reminder Definition Worksheet	
	3. PCE Clinical Integration Worksheet	
F	E. Designing Encounter Forms based on Preventive Maintenance Guidelines	
	Encounter Form Examples	85
III.	CREATING AND CUSTOMIZING CLINICAL REMINDERS	87
A	A. TECHNICAL OVERVIEW OF REMINDER LOGIC	88
F	3. DEVELOPING AND CUSTOMIZING CLINICAL REMINDERS	92
AP	PENDIXES	109
AP	PENDIX A: DISTRIBUTED REMINDER DEFINITIONS	110
ΑP	PENDIX B. DISTRIBUTED TAXONOMIES	183

I. Introduction

Overview

The Clinical Reminders software, originally released as part of Patient Care Encounter (PCE) in 1996 and enhanced by several patches since then, has become a valuable aid for many VAMC clinics in patient treatment. Clinical Reminders work in conjunction with Health Summary, AICS, and CPRS to furnish providers with timely information about their patients' health maintenance schedules. This information is provided on the Cover Sheet of CPRS and through three Health Summary components: Clinical Reminders Due, Clinical Reminders Summary, and Clinical Reminders Maintenance.

The National Center for Health Promotion has defined a set of fifteen reminders, which represent a minimum set that sites must report on yearly to comply with congressional law. Each VISN must comply with performance measures that address Prevention Index/Chronic Disease Index (PI/CDI), as well as with VHA Directive XXX, Health Promotion and Disease Prevention Program which states that each VHA facility shall have a program to educate veterans with respect to health promotion and disease prevention and to provide veterans with preventive medical care that includes screening and other clinical services. Appendix A of this directive lists recommended guidelines for preventive medical care. The clinical reminders functionality offers a tool for clinicians to address compliance with these guidelines on a patient-by-patient basis.

Providers can work with their local ADP coordinators to set up customized reminders based on local and national guidelines for patient education, immunizations, skin tests, measurements, exams, laboratory tests, radiology procedures, and other procedures.

This manual describes how you can use clinical reminders along with related tools and technology to provide better patient care.

This overview reviews:

- Relationships between PCE, encounter forms, health summaries, and clinical reminders.
- Encounters and encounter forms, along with the considerations you need to keep in mind when designing encounter forms.
- Health summaries
- Clinical reminders set-up
- Clinical reminders benefits

Where Does the Data for Reminders Come From?

Clinical reminders depend upon patient clinical information collected from a variety of sources, using manual data entry, automated data capture tools, and/or ancillary service activities.

This table shows some of the sources of patient data for clinical reminders.

User source	Type of data	Package
Checkout	Encounter data on encounter form or	AICS, PCE, Scheduling
clerks	Progress Note	
	Historical information noted on the	DCE
	Historical information noted on the encounter form	PCE
Practitioners	Encounter data on encounter form	AICS, PCE
Tractitioners	Encounter data on encounter form	THOS, TOE
	Historical information	PCE
	Vitals	Vitals
	Text notes are not usable directly by the	Progress Notes, Discharge
	reminders; but clinical reminders can	Summary or TIU
	make use of text data if clerk reads and	
	manually enters data	
Ward Clerks	Encounter data from Inpatient Stay	PIMS – ADT summary in PTF
		file.
MCCR	Data entered to complete an encounter	Scheduling, PCE
personnel	for billing and workload credit	
Transcript-	Transcribed text is not usable directly by	Progress Notes \rightarrow PCE,
ionists	the reminders, but clinical reminders can	Radiology \rightarrow PCE, Discharge
	make use of coded data extracted and	Summaries \rightarrow PCE and ADT,
	manually entered	Cytopathology \rightarrow PCE
Ancillary	Record results from procedures and	Laboratory \rightarrow PCE,
service	automatically update PCE upon	Radiology \rightarrow PCE,
practitioners	verification of results	$Surgery \rightarrow PCE$
		Event Capture→ PCE

Manual Data Entry

Manual data entry is one way to record patient care encounters. The data entered provides the when, why, what, and who information related to a patient encounter:

- ♦ Encounter location and date/time
- ♦ Diagnoses treated
- ♦ Procedures performed
- ♦ Practitioner(s)

Historical information about encounters can be entered using the *Encounter View* action in PCE data entry options to make the patient record more complete. Data capture requirements for historical data are minimal. The historical encounter data is not used for billing and workload. No provider is required and entering only a diagnosis or procedure is okay. Immunizations, pap smears, mammograms, surgeries, etc., done elsewhere may now be recorded and used by the clinical reminders. This includes other VA Medical Centers and non-VA locations (Health Department, private office, etc.).

Automated Data Capture

Scanned encounter forms can be used to capture encounter data relevant to clinical reminders. If the reminders are to be accurate, the forms must capture the data they need.

It is a challenge to keep the forms as simple as possible while still meeting information capture requirements. This may be done by combining information such as immunizations and skin tests with other required preventive procedures and assigning appropriate CPT codes so they will be captured correctly.

There is no perfect encounter form. Everyone who uses these forms will have ideas about how to make them "perfect." They need to be carefully designed to meet *most* of the users' needs, while capturing information for workload and billing purposes. You can't capture everything for everyone on one form.

How do Clinical Reminders and Health Summary use the data?

Reminder items are added to health summary selection components for a given health summary type. When the health summary type is run, the Clinical Reminders software evaluates the patient's data and returns the results to the health summary for display.

Health Summary Reminder Components

- ♦ Clinical Reminders Due: an abbreviated component indicating only what is due now.
- ♦ Clinical Reminders Summary

This component provides the next due date and the last done date.

The clinical reminder displays on the health summary as follows:

Reminder	<u>Next</u>	<u>Last Done</u>
Mammogram	10/1/98	10/1/96
Pap Smear	Due Now	Unknown
Diabetic Eye Exam	10/1/98	10/1/97

- Clinical Reminder Maintenance: this component provides:
 - 1. Details about what was found from searching the VISTA clinical data.
 - 2. Text related to the findings found or not found (as defined in the reminder). This includes taxonomies (ICD or CPT codes), health factors, and test results related to the reminder and computed findings (e.g., Body Mass Index).
 - 3. Final frequency and age range used for the reminder.

The advantage of clinical maintenance over clinical reminders is that it includes related test results, health factors, and logic related to that reminder.

Example of *clinical maintenance* as displayed on a health summary:

```
Reminder

Hemoglobin AlC

11/1/97

11/1/96

Problem Diagnosis: 250-Diabetes

HbAlC required yearly for diabetic patients

11/1/96 Lab procedure: HbAlC; results 9.6%

Final frequency and age range used: 1 year for diabetic patients
```

Health summaries and reminder definitions can be tailored to suit clinicians' needs. Some health summaries are defined by users themselves and some are designed for generic use. Many kinds of information can be displayed on a health summary. You can define one which is very detailed so that it could be used in place of a paper chart. Most sites use the health summary to supplement the paper chart, based on the clinic and provider's preference for health summary content.

Clinician's Role in Clinical Reminders

The clinician plays an important role in Clinical Reminders. He/she will be asked to assist the Clinical Coordinator in selecting which reminders to implement and in defining the clinical aspects of the Clinical Reminder Definition Worksheets, including:

- ♦ Baseline Age Findings
- Reminder Frequency
- ♦ Minimum and Maximum Age
- ♦ Health Factors, Taxonomies
- ♦ Related Lab and Radiology Tests
- Computed Findings.

Clinicians may also have clinical reminders customized for their needs.

The clinician also plays a major role by appropriately marking the reminder health topics on the encounter forms. As exams, tests, immunizations, screening, and education are given, the boxes must be marked so that the information can be entered into the computer by the clinician or clerk, or picked up by scanners and passed on to PCE to satisfy the clinical reminders.

Historical encounters can be entered for patient visits that occurred sometime in the past (exact time may be unknown) or at some other location (possibly non-VA). They are used to satisfy reminders and determine next date due.

Most important, clinicians will make use of clinical reminders and clinical maintenance to enhance patient care, by assuring timely completion of appropriate tests, immunizations, exams, screenings, and education.

How does the Clinical Reminders software help to meet Clinical Guidelines, NCHP, performance indicators, and preventive medicine mandates?

Make the most of your clinical reminders!

The National Center for Health Promotion (NCHP) has defined a set of 15 reminders that represent the minimum that sites must report on yearly to comply with Congressional law. The Ambulatory Care Expert Panel has defined 22 reminders that they recommend. The NCHP reminders are prefixed with VA-* and the EP reminders with VA-. Any of these reminders that meet your site's requirements may be used *as is*. If your site requires a reminder that is not met by one of the distributed reminders, you can create your own. It is usually easiest to start by copying the existing reminder that is closest to what you want.

You may wish to review VHA Handbook 1101.8 Health Promotion and Disease Prevention Program (RCN 10-0666), VAMC Outpatient Performance Indications, and Clinical Guidelines as resource materials when deciding what reminders you need.

Create a Preventive Medicine Health Summary or add reminder and maintenance items to existing health summaries. You can print health summaries and provide them to clinicians for all scheduled visits, or show them how to view them on their computer monitors. A clinician may use the ADHOC health summary to review individual maintenance or reminder information.

When reviewers visit your medical center, make these summaries available to them. Feedback from reviewers who have used these health summaries during their reviews has been very positive.

PLEASE NOTE: Clinical reminders and clinical maintenance do *not* satisfy documentation requirements. Documentation supporting these reminders must still be made on progress notes, doctor's orders, etc.

II.	Setting	Up	Clinical	Reminders
-----	---------	----	-----------------	-----------

II. Setting Up Clinical Reminders

A. Clinical Reminders Options

Reminder Maintenance Menu

Option	Option Name	Description
List Reminder	PXRM REMINDERS	Lists all of the Reminder/Maintenance item definitions.
Definitions	LIST	
Inquire About	PXRM REMINDER	Lists the definition of a selected reminder.
Reminder Item	INQUIRY	
Add/Edit	PXRM REMINDER	Used to edit Reminder/ Maintenance Item definitions.
Reminder Item	EDIT	
Copy Reminder	PXRM REMINDER	Used to copy an existing reminder item definition into a
Item	COPY	new reminder item in the Reminder/ Maintenance Item
		file (#811.9). Once the copy is completed you will have
		the option of editing the new reminder.
Activate/	PXRM (IN)/	Used to make reminders active or inactive with Health
Inactivate	ACTIVATE	Summary.
Reminders	REMINDERS	
List Reminder	PXRM REMINDER	Lists the Reminder Types along with a summary of
Types Logic	TYPES LOGIC	where the reminder's logic searches for data in VISTA
		to be used for the reminder type's target patient
		findings.
Reminder Reports	PXRM REMINDER	This is a menu of PCE reminder reports that clinicians
	REPORTS	can use for summary and detailed level information about
		patients' reminders due and staisfied.
List Taxonomy	PXRM TAXONOMY	Lists the current definition of taxonomies defined in the
Definitions	LIST	Taxonomy file, which defines the coded values from ICD
		Diagnosis, ICD Operation/ Procedures, or CPT codes that
		are part of a clinical category (taxonomy). These
		taxonomy low and high range definitions are used by the
		Clinical Reminders logic to determine if a patient has
		coded values in the clinical files that indicate the patient
T . 1 .	DAMPINE TO A STOCK OF THE	is part of the taxonomy.
Inquire about	PXRM TAXONOMY	Lists the current definition of a single taxonomy,
Taxonomy Item	INQUIRY	including the same information as the Taxonomy List
Elu T.	DVDMTAVONOMY	option.
Edit Taxonomy	PXRM TAXONOMY EDIT	Used to edit Taxonomy Item definitions.
Item	PXRM TAXONOMY	Head to conv an evicting towards definition into
Copy Taxonomy Item	COPY	Used to copy an existing taxonomy definition into a new entry in the Taxonomy file (#811.2). Once
Trem	COFI	the taxonomy has been copied, you have the
		option of editing it.
Activate/	PXRM (IN)/ ACTIVATE	This option allows you to activate/inactivate taxonomies.
Inactivate	TAXONOMIES	This option allows you to activate/mactivate taxonomies.
Taxonomies	1717 OT WILL	
Reminder	PXRM REMINDER	This option allows sites to exchange reminder
Exchange	EXCHANGE	1
Zaminge	Literation (OL	definitions via MailMan messages and host files.

Reminder Test

Reminder Test [PXRM REMINDER TEST], a standalone option, provides the technical user with a tool that can facilitate the creation and debugging of reminder definitions. This option lets you run a reminder directly and see all the details. It is completely safe to use, and its impact on the system is no different than running a reminder through Health Summary. This option is explained in detail later.

Depending on a site's preferences, IRMS can add this option to the Reminder Maintenance menu or to a particular user's secondary menus.

List Reminder Definitions

When you select this option, all of the reminder definitions will be printed at the printer you choose. See Appendix A for a list of all the exported reminders.

```
List Reminder Definitions
         Inquire about Reminder Item
  RΤ
  RE
         Add/Edit Reminder Item
         Copy Reminder Item
  RC
        Activate/Inactivate Reminders
  RA
  RТ
        List Reminder Types Logic
        Reminder Reports...
  RP
  TL
         List Taxonomy Definitions
        Inquire about Taxonomy Item
  TΙ
       Edit Taxonomy Item
  TE
  TC
        Copy Taxonomy Item
  TA
        Activate/Inactivate Taxonomies
  RX
         Reminder Exchange
Select PCE Reminder Maintenance Menu Option: RL List Reminder Definitions
DEVICE: ANYWHERE RIGHT MARGIN: 80//
PCE REMINDER/MAINTENANCE ITEM LIST
                                           NOV 12,1998 14:45 PAGE 1
CHOLESTEROL SCREEN (F)
-----
Reminder Type:
                           LABORATORY TEST
Print Name:
                           Cholesterol Screen (Female)
Related VA-* Reminder:
                           VA-*CHOLESTEROL SCREEN (F)
Reminder Description:
   This Cholesterol screen reminder for females is based on the following
   "Hyperlipidmia Detection" guidelines specified in the "VHA HANDBOOK
   1101.8, APPENDIX A.
       Target Conditions: Cardiovascular Disease.
       Target Group: Females 45-65.
PCE REMINDER/MAINTENANCE ITEM LIST NOV 12,1998 14:45 PAGE 2
       Recommendation: Check total cholesterol level within the past
       five years.
       Goal for FY 2000: 75% of females ages 45-65 Primary Care clinic
       patients have had a blood cholesterol level check within the past
       five years.
```

List Reminder Definitions, cont'd

Technical Description:

As distributed, this reminder is based on CPT codes which represent cholestrol tests the patient has had documented in PCE. These may be CPT codes for cholesterol done by the Laboratory Service, or a historical encounter documented to show when the cholesterol test was last given to the patient.

Copy this reminder to a new reminder for your site. Add the Laboratory Tests that represent a cholesterol level check in the Result Findings multiple.

PLEASE NOTE: Your local version of this reminder will include the search

PCE REMINDER/MAINTENANCE ITEM LIST NOV 12,1998 14:45 PAGE 3

.-----

based on the local ancillary Lab package results, it is possible that 5 years worth of patient lab history are not on record.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 5 years for ages 45 to 65

Match Text: Check total cholesterol every 5 years for women

ages 45-65.

No Match Text: Cholesterol not indicated for women under 45,

or over 65.

Targeted Result Findings for LABORATORY TEST reminder type:

LABORATORY TEST

Target Result Match Text:

.

Inquire About Reminder Item [PXRM REMINDER INQUIRY]

This option prints the definition of a reminder you select.

Select PCE Reminder Maintenance Menu Option: ${\bf ri}$ Inquire about Reminder Item Select PCE Reminder Item: Weight

1 Weight VA-WEIGHT

2 Weight and Nutrition Screen VA-*WEIGHT AND NUTRITION SCREEN

CHOOSE 1-2: 2 VA-*WEIGHT AND NUTRITION SCREENSelect PCE Reminder Item: VA-*WEIGHT AND NUTRITION SCREEN

DEVICE: ;;999 ANYWHERE RIGHT MARGIN: 80// <Enter>

PCE REMINDER ITEM INQUIRY NOV 12,1998 14:52 PAGE 1

NUMBER: 9

VA-*WEIGHT AND NUTRITION SCREEN

Reminder Type: EDUCATION

Print Name: Weight and Nutrition Screen

Related VA-* Reminder: VA-*WEIGHT AND NUTRITION SCREEN

Reminder Description:

This VA-*WEIGHT AND NUTRITION SCREEN reminder is based on the following "Weight Control and Nutrition Counseling" guidelines defined in the VHA HANDBOOK 1101.8, APPENDIX A.

Target condition: Obesity and associated conditions.

Target Group: General outpatient population.

Recommendation: Primary care clinicians should provide their patients with periodic counseling or referral for counseling regarding dietary intake of calories, fat (especially saturated fat), cholesterol, and fiber. A nutrition counseling service should be available at each VHA facility.

Goals for FY 2000: Reduce dietary fat intake to an average of 30 of calories and saturated fats to less than 10%. Increase complex carbohydrate and fiber-containing foods in the diet to 5 or more daily servings for vegetables and fruits and 6 or more daily servings for grain products. Reduce overweight to a prevalence of no more than 20% among people age 20 and older. Women should be encouraged to consume 1000 mg/day of calcium until menopause and 1500 mg/day thereafter. 100% of VHA facilities should have formal nutrition counseling available for outpatients.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

Inquire About Reminder Item, cont'd

This reminder represents the minimum criteria for checking if the patient has received a weight and nutrition screen. The "VA-NUTRITION/WEIGHT SCREENING" education topic is the result finding that will satisfy this reminder. The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-NUTRITION/OBESITY EDUCATION" reminder. This reminder includes a check for nutrition education, in addition to the screening. It also includes target conditions for patients who have nutrition or obesity related diagnoses or health factors on file. Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications. Target Groups - Baseline: Do In Advance Time Frame: Do if DUE within 1 month Sex Specific: Ignore on N/A: 1 year for all ages Weight and Nutrition screen due yearly for all Frequency for Age Range: Match Text: patients. No Match Text: Targeted Result Findings for EDUCATION reminder type: EDUCATION TOPICS VA-NUTRITION/WEIGHT SCREENING Target Result Match Text: No Match Text Target Conditions: 1 Diagnosis/Procedure Taxonomy Findings: Taxonomy: VA-WEIGHT AND NUTRITION SCREEN (TF(36)) Match freq/age: Rank Frequency: Use in Date Due Calc: YES Use in Apply Logic: Match Text: No Match Text: General Match Text: General No Match Text: 2 Health Factor Findings: Health Factor: INACTIVATE WEIGHT/NUTRITION SCREEN (HF(67)) Match Freq/Age: 0Y - Not Indicated for all ages Rank Frequency: Use in Date Due Calc: Use in Apply Logic: AND NOT Match Text: No Match Text:

Inquire About Reminder Item, cont'd

```
Health Factor: ACTIVATE WEIGHT/NUTRITION SCREEN (HF(68))
Match Freq/Age:
Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:
General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient:
(SEX)&(AGE)&'(HF(67))

Expanded Apply Logic:
(SEX)&(AGE)&'(HF(INACTIVATE WEIGHT/NUTRITION SCREEN))
Select PCE Reminder Item:
```

Add/Edit Reminder Item [PXRM REMINDER EDIT]

This option is used to edit Reminder/ Maintenance Item definitions. The help text provided when you enter one or two question marks is listed in this example.

```
Select PCE Reminder Item: CHOLESTEROL SCREEN (F)
NAME: CHOLESTEROL SCREEN (F) Replace
REMINDER TYPE: LABORATORY TEST// ??
    This is the reminder type defined for this reminder. The allowable types
     of reminders are defined in the PCE Reminder Type file, which also
    explains how each reminder type functions. If the reminder types do not
    address the type of reminder needed at your facility, the "Computed
    Findings" in this file may have to be used to specify a specially
    programmed reminder programmed by your facility. Your feedback to the SLC
     IRMFO will be useful for determining future directions of reminder types.
Choose from:
   EDUCATION
   EXAMINATION
   TMMIINTZATTON
   LABORATORY TEST
  MEASUREMENT
   PROCEDURE
   RADIOLOGY PROCEDURE
   SKIN TEST
REMINDER TYPE: LABORATORY TEST// <Enter>
PRINT NAME: Cholesterol Screen (Female) Replace <Enter>
RELATED REMINDER GUIDELINE: VA-*CHOLESTEROL SCREEN (F)
         // ??
     If this local reminder replaces an NCHP related reminder, then identify
     the related NCHP reminder here.
    The National Center for Health Promotion (NCHP) has identified reminders
    which must be tracked at local facilities and reported on to Congress. The
    reminders that address the NCHP reminders are prefixed with "VA-*". These
    reminders may be used in the Health Summary Components, or replaced by a
    local reminder that also satisfies the NCHP guideline.
Choose from:
   VA-*BREAST CANCER SCREEN
   VA-*CERVICAL CANCER SCREEN
   VA-*CHOLESTEROL SCREEN (F)
   VA-*CHOLESTEROL SCREEN (M)
   VA-*COLORECTAL CANCER SCREEN (
  VA-*COLORECTAL CANCER SCREEN (
   VA-*FITNESS AND EXERCISE SCREE
  VA-*HYPERTENSION SCREEN
   VA-*INFLUENZA IMMUNIZATION
   VA-*PNEUMOCOCCAL VACCINE
```

```
VA-*PROBLEM DRINKING SCREEN
   VA-*SEAT BELT AND ACCIDENT SCR
   VA-*SEATBELT AND ACCIDENT SCRE
   VA-*TETANUS DIPHTHERIA IMMUNIZ
   VA-*TETANUS DIPTHERIA IMMUNIZA
   VA-*TOBACCO USE SCREEN
   VA-*WEIGHT AND NUTRITION SCREE
   RELATED REMINDER GUIDELINE: VA-*CHOLESTEROL SCREEN (F)
         // <Enter>
INACTIVE FLAG: ??
     This flag is set to ACTIVE in the distribution. As part of the
     installation, each site should review the Reminder/Maintenance item
    definitions and inactivate those that do not meet the site's needs. If
    desired, a site can copy a distributed reminder, using PXRM REMINDER
    COPY, to a local version and edit it to meet the site's needs.
    Reminder/Maintenance items that have been set to INACTIVE will not be
     activated by subsequent PCE updates.
    Choose from:
                INACTIVE
      1
INACTIVE FLAG:
REMINDER DESCRIPTION: . .
   Target Group: Females 45-65.
   Recommendation: Check total cholesterol level within the past
   five years.
   Goal for FY 2000: 75% of females ages 45-65 Primary Care clinic
   patients have had a blood cholesterol level check within the past
   five years.
 Edit? NO//
TECHNICAL DESCRIPTION:. . .
the patient.
Copy this reminder to a new reminder for your site. Add the Laboratory
Tests that represent a cholesterol level check in the Result Findings
multiple.
PLEASE NOTE: Your local version of this reminder will include the search
based on the local ancillary Lab package results, it is possible that 5
years worth of patient lab history are not on record.
 Edit? NO//
Target Groups
DO IN ADVANCE TIME FRAME: 3M// ??
     This field allows the site to determine whether to mark the maintenance
     item as "DUE NOW" if the reminder will be due within the time period
    specifed here. For example. If Smoking Education is due yearly, and
     a patient is due for education within a month, the reminder will check the
     "DO IN ADVANCE TIME FRAME" to see if it has a value. If the value in this
```

```
field had been 1M then the item would show up on the PCE Clinical
     Reminders component as "DUE NOW". If the item does not have a "DUE NOW"
     status it can only be seen on the PCE Clinical Maintenance component.
DO IN ADVANCE TIME FRAME: 3M// <Enter>
SEX SPECIFIC: FEMALE// ??
     This is used to mark a reminder as being sex specific. If it is left blank
     then the reminder is applicable to either sex.
     Choose from:
                FEMALE
       F
      M
                MALE
SEX SPECIFIC: FEMALE// <Enter>
IGNORE ON N/A: S// ??
     This field allows the user to stop reminders from being printed in the
     "Clinical Maintenance" component of Health Summary if the reminder is \ensuremath{\mathtt{N}}/\ensuremath{\mathtt{A}}.
     This is free text that can contain any combination of the following codes:
    Code Description
          N/A due to not meeting age criteria.
      Α
      S
           N/A due to the wrong sex.
           N/A for any reason.
IGNORE ON N/A: S// <Enter>
Baseline frequency age range set
Select REMINDER FREQUENCY: 5Y// ??
     This is the frequency to give the reminder. It is input as nD, nM, or
     nY,\ where\ D stands for days, M for months, Y for years, and n is a
     number. Thus, for a reminder that is to be given once a year, the
     values 365D, 12M, or 1Y would all work. There are two special reminder
     frequencies. The frequency OY means that the reminder is never to be
     given. This is used to create reminders that are given only to patients
     who have certain findings. For example the distributed VA-DIABETIC
     reminders are setup up so they are given only to patients who have the
     VA-DIABETIC taxonomy (which has a frequency of 1Y); the baseline
     frequency is 0Y. The second special frequency is 99Y. This is used for
     reminders that are to be given once in a lifetime.
Select REMINDER FREQUENCY: 5Y// <Enter>
 REMINDER FREQUENCY: 5Y// <Enter>
 MINIMUM AGE: 45// ??
     This field allows the site to customize the reminder by defining a minimum
     age to apply to the reminder frequency. If a reminder has different
     frequencies depending on age ranges, the minimum age should be specified
     here.
 MINIMUM AGE: 45// <Enter>
 MAXIMUM AGE: 65// ??
     This field allows the site to customize the reminder by defining a maximum
     age related to the reminder frequency. If a reminder has different
     reminder frequencies based on age, the maximum age for the frequency
     should be specified here.
 MAXIMUM AGE: 65// <Enter>
 AGE MATCH TEXT:
Check total cholesterol every 5 years for women ages 45-65.
    Edit? NO// <Enter>
```

```
AGE NO MATCH TEXT:
Cholesterol not indicated for women under 45, or over 65.
    Edit? NO// <Enter>
Select REMINDER FREQUENCY: 5Y
Target Findings
Select TARGET RESULT FINDINGS FILE: LABORATORY TEST
         // ??
   LABORATORY TEST
    This multiple is used to specify the target result file entries to be used
     for patient findings for the reminder. Enter the appropriate target result
     file for the Reminder Type as follows:
       Reminder Type
                                Targeted Result Findings File
       Education
                                Education Topics
       Examination
                                Exam
       Immunization
                                Immunization
       Lab Test
                                Laboratory Test
       Measurement
                                GMRV Vital Type
       Radiology Procedure
                                Radiology Procedures
       Procedure
                                None (evaluates findings with "Taxonomy
                                   Findings" with CPTs or Diagnosis Codes)
       Skin Test
                                Skin Test
    The files involved in this multiple are those files that do not have a
    coded standard. Coded standards to be used for findings must be specified
     in the PCE Taxonomy file, and then identified in the "Taxonomy Findings"
    multiple of the reminder definition.
    The Taxonomy Findings can be defined to be evaluated for patient data in
    addition to the Targeted Result Findings.
   60
                   LABORATORY TEST
                   RAD/NUC MED PROCEDURES
   120.51
                   GMRV VITAL TYPE
   9999999.09
                   EDUCATION TOPICS
   9999999.14
                   IMMUNIZATION
   9999999.15
                   EXDM
   9999999.28
                   SKIN TEST
Select TARGET RESULT FINDINGS FILE: LABORATORY TEST
         // <Enter>
  TARGET RESULT FINDINGS FILE: LABORATORY TEST// <Enter>
 TARGET RESULT DESCRIPTION:
The Laboratory Test file is used to identify CHOLESTEROL lab tests.
Define Selection Item entries below that should be used for checking the
DHCP Lab results for Cholesterol values.
    Edit? NO// <Enter>
 Select TARGET RESULT FINDINGS ITEM: ??
     This field allows the site to identify local file entries in the target
     result findings file to be used to evaluate patient findings for this
    reminder.
```

```
Enter one of the following:
       L.EntryName to select a LABORATORY TEST
       R.EntryName to select a RADIOLOGY TEST
       E.EntryName to select a EDUCATION TOPIC
       I.EntryName to select a IMMUNIZATION
       SK.EntryName to select a SKIN TEST
       EX.EntryName to select a EXAM
      VT.EntryName to select a VITAL MEASUREMENT TYPE
    To see the entries in any particular file type <Prefix.?>
    If you simply enter a name then the system will search each of
    the above files for the name you have entered. If a match is
    found the system will ask you if it is the entry that you desire.
    However, if you know the file the entry should be in, then you can
    speed processing by using the following syntax to select an entry:
          <Prefix>.<entry name>
                    or
           <Message>.<entry name>
                    or
          <File Name>.<entry name>
    Also, you do NOT need to enter the entire file name or message
    to direct the look up. Using the first few characters will suffice.
 Select TARGET RESULT FINDINGS ITEM: <Enter>
 TARGET RESULT FOUND TEXT:
   No existing text
   Edit? NO// <Enter>
  TARGET RESULT NOT FOUND TEXT:
LAB: Date of last cholesterol test unknown.
   Edit? NO// <Enter>
Taxonomy Findings
Select TAXONOMY: VA-CHOLESTEROL// ??
  VA-CHOLESTEROL
Choose from:
  LOCAL 660 1
  TTEST
            TB risk codes
  VA-ALCOHOL ABUSE Alcohol abuse codes
  VA-ALCOHOLISM SCREENING Alcoholism screening codes
                    +HX breast tumor ICD9 codes
  VA-BREAST TUMOR
  VA-CERVICAL CA/ABNORMAL PAP Cervical ca/abnormal pap codes
  VA-CERVICAL CANCER SCREEN
                                 Cervical cancer screen codes
                   Cholesterol codes
  VA-CHOLESTEROL
  VA-COLORECTAL CA
                       Colorectal cancer codes
  VA-COLORECTAL CANCER SCREEN
                                  Rectal cancer screen codes
  VA-DIABETES
                  Diabetic diagnosis codes
  VA-EXERCISE COUNSELING
                            Exercise counseling codes
  VA-FLEXISIGMOIDOSCOPY
                             Flexisigmoidoscopy codes
               Fecal occult blood test codes
  VA-FOBT
  VA-HIGH RISK FOR FLU/PNEUMONIA
                                      Flu/pneumonia risk codes
  VA-HIGH RISK FOR TB
                           TB risk codes
  VA-HYPERTENSION Hypertension codes
```

VA-HYPERTENSION SCREEN Hypertension screen codes VA-HYSTERECTOMY Hysterectomy codes VA-INFLUENZA IMMUNIZATION Influenza immunization codes VA-MAMMOGRAM/SCREEN Mammogram/screening CPT codes Select TAXONOMY: VA-CHOLESTEROL// <Enter> TAXONOMY: VA-CHOLESTEROL// <Enter> MINIMUM AGE: 30 MAXIMUM AGE: 70 REMINDER FREQUENCY: 1Y FOUND TEXT: No existing text Edit? NO// <Enter> NOT FOUND TEXT: Date of last cholesterol taxonomy (CPT) unknown. Edit? NO// <Enter> RANK FREQUENCY: ?? This optional field is used to rank the frequency and age ranges that are associated with this Taxonomy Finding.

This field is used for the situation 1) where more than one match is found among Taxonomy Findings, and/or Health Factor Findings and/or Computed Findings, and 2) where more than one of the Findings definitions has its own age range and frequency. The rank is used to define a priority or ranking that tells the reminder logic which age range and frequency should take precedence when there are multiple results found.

The value which can be entered in the Rank field should be a number from 1 to 999, or blank. The highest ranking (priority) is number 1. When there are multiple Findings found, the Finding with the highest rank will be used to set the frequency and age range which are used to determine when the reminder is due.

When the Rank field is blank (null) for this Taxonomy Finding, and also blank for the Health Factor and Computed Findings definitions, the reminder logic will use the frequency that will make the reminder occur most often. For example, a Health Factor Finding has age range 25-50 with a frequency of 6 months, and a Taxonomy Finding has age range 25-70 and a frequency of 1 year. The Health Factor age and frequency would be used for the reminder, since a 6 month interval is more frequent than 1 year interval.

RANK FREQUENCY: <Enter>

USE IN DATE DUE CALC: YES// ??

This optional field is used by the reminder logic to determine if the date of a match on the Taxonomy Finding should be used to determine the next date the reminder will be due. If there are multiple matches among the Findings, and this Taxonomy Finding is the the most recent Finding, then the reminder date due will be calculated from the encounter date of this Finding.

A blank in this field indicates the encounter date of the matched Taxonomy Finding will NOT be used to determine the next date the reminder will be due. The Taxonomy Finding encounter date and data WILL however be displayed in the clinical maintenance component as information.

This field is very useful for the situation when the Targeted Result Findings AND this Taxonomy Finding should be used as valid patient results satisfying the reminder.

Choose from:

```
1 YES 0 NO
```

USE IN DATE DUE CALC: YES// <Enter>

USE IN APPLY LOGIC: ??

This optional field is used by the user to indicate that this Taxonomy Finding should be included as part of the "Apply Logic". The Apply Logic is used to determine whether or not a reminder should be applied (given) to a patient. This is very useful for those situations where a reminder should only be given to, or NOT given to patients with a particular Taxonomy Finding, such as diabetes.

This "Use in Apply Logic" field can be defined with one of the following coded values:

```
EQUATES TO BOOLEAN
CODE
      VALUE
                 OPERATOR LOGIC
      BLANK
                 not included in Apply Logic (Use @ to delete value)
       AND
                 &(Finding)
&
!
       OR
                 !(Finding)
ا &
                 &'(Finding)
      AND NOT
1.1
      OR NOT
                 !'(Finding)
```

The code selected is used to create a default Boolean "Apply Logic" string for this reminder. The Apply Logic string always initially defaults to include (SEX)&(AGE), but will add &(Finding), !(Finding), &'(Finding), or !'(Finding) to the string depending on the code in this "Use in Apply Logic" field. If a more detailed definition of the Apply Logic is required, then the "Apply Logic" field in the PCE REMINDER/MAINTENANCE FILE (811.9) can be defined via FileMan. When the Apply Logic is defined using FileMan, the "Use in Apply Logic" field will be ignored by the reminder logic because the default "Apply Logic" is overriden by the contents of the "Apply Logic" field. To reactivate the default "Apply Logic", use FileMan to delete the contents of the "Apply Logic" field. Choose from:

```
& AND ! OR & ' AND NOT ! ' OR NOT
```

USE IN APPLY LOGIC: <Enter>
Select TAXONOMY: <Enter>
TAXON GENERAL FOUND TEXT:
No existing text
Edit? NO// <Enter>

TAXON GENERAL NOT FOUND TEXT:

No existing text Edit? NO// **<Enter>**

Health Factor Findings

```
Select HEALTH FACTOR FINDINGS ITEM: ACTIVATE CHOLESTEROL SCREEN
Choose from:
   ACTIVATE CHOLESTEROL SCREEN
   INACTIVATE CHOLESTEROL SCREEN
    This is the health factor item defined in the Health Factor file that
    should be used to evaluate findings of patient data for this reminder.
    a health factor needed to evaluate findings does not exist in the Health
    Factor file, use the "PCE Table Maintenance" option to update the Health
    Factor file with needed items. After the Health Factor file is adequately
    defined, then specify the health factor item here as it relates to the
    appropriate reminder.
Choose from:
   ACTIVATE BREAST CANCER SCREEN
   ACTIVATE CERVIX CANCER SCREEN
   ACTIVATE CHOLESTEROL SCREEN
   ACTIVATE EXERCISE SCREEN
   ACTIVATE FOBT CANCER SCREEN
   ACTIVATE INFLUENZA IMMUNIZATION
  ACTIVATE PNEUMOCOCCAL VACCINE
  ACTIVATE PROBLEM DRINKING SCREEN
  ACTIVATE SEAT BELT SCREEN
  ACTIVATE SEATBELT SCREEN
   ACTIVATE SIGMOIDOSCOPY
  ACTIVATE TD IMMUNIZATION
  ACTIVATE TOBACCO USE SCREEN
  ACTIVATE WEIGHT/NUTRITION SCREEN
  ALCOHOL USE
   BINGE DRINKING
   BREAST CANCER
  CURRENT NON-SMOKER
   CURRENT SMOKELESS TOBACCO USER
   CURRENT SMOKER
  CURRENTLY PREGNANT
Select HEALTH FACTOR FINDINGS ITEM: ACTIVATE CHOLESTEROL SCREEN
 HEALTH FACTOR FINDINGS ITEM: ACTIVATE CHOLESTEROL SCREEN
        // <Enter>
 MINIMUM AGE:
 MAXIMUM AGE:
 REMINDER FREQUENCY:
 FOUND TEXT:
 No existing text
   Edit? NO// <Enter>
 NOT FOUND TEXT:
   No existing text
   Edit? NO// B<Enter>
 RANK FREQUENCY:
```

```
USE IN DATE DUE CALC: ??
     This optional field is used by the reminder logic to determine if the
     date of a match on the Health Factor Finding should be used to determine
     the next date the reminder will be due. If there are multiple matches
     among the Findings, and this Health Factor Finding is the the most recent
     Finding, then the reminder date due will be calculated from the
     encounter date of this Finding.
     A blank in this field indicates the encounter date of the matched
     Health Factor Finding will NOT be used to determine the next date the
     reminder will be due. The Health Factor Finding encounter date and data
     WILL however be displayed in the clinical maintenance component as
     information.
     This field is very useful for the situation where the Targeted Result
     Findings AND this Health Factor Finding should be used as valid patient
     results satisfying the reminder.
     Choose from:
       1
                YES
       0
                NO
  USE IN DATE DUE CALC:
  USE IN APPLY LOGIC:
Select HEALTH FACTOR FINDINGS ITEM:
HF GENERAL FOUND TEXT:
 No existing text
  Edit? NO//
HF GENERAL NOT FOUND TEXT:
 No existing text
 Edit? NO//
Computed Findings
Select ROUTINE: ??
     This is the name of an M routine that will be executed. It should return a
     true (1) or false (0). For example, the routine OBESE^PXRMOBES returns 1 if
     the patient has a body mass index > 27, 0 otherwise. The format for the
     routine name is entry_point;routine_name. The ";" must be used in place of "^" because Fileman will not allow the "^". Thus our example routine would
     be specified as OBESE; PXRMOBES.
Select ROUTINE:
APPLY LOGIC: ??
     This optional field is only used when the default apply logic created by
     the USE IN APPLY LOGIC field does not provide the level of
     specificity needed to determine if the reminder should be applied to
     the patient. The technical manual, Appendix C, provides information about
     how to define the APPLY LOGIC field.e
APPLY LOGIC:
Select PCE Reminder Item:
```

Copying and Editing a Reminder [PXRM REMINDER COPY]

Use this option to copy an existing reminder item definition into a new reminder item in the Reminder/ Maintenance Item file (#811.9). Once the copy is completed, you can edit the new reminder.

NOTE: Use one up-arrow (^) or two up-arrows (^^) to exit from the option. Two up-arrows (^^) are necessary to exit from some prompts (ones that are indented).

```
RL
          List Reminder Definitions
  RΤ
         Inquire about Reminder Item
  RE
         Add/Edit Reminder Item
  RC
         Copy Reminder Item
   RA
         Activate/Inactivate Reminders
         List Reminder Types Logic
  RТ
        Reminder Reports
  RP
        List Taxonomy Definitions
  TL
  ΤI
        Inquire about Taxonomy Item
   TE
        Edit Taxonomy Item
  TC
         Copy Taxonomy Item
        Activate/Inactivate Taxonomies
  TΑ
        Reminder Exchange
Select PCE Reminder Maintenance Menu Option: RC Copy Reminder Item
Select the reminder item to copy: FECAL OCCULT BLOOD TEST
PLEASE ENTER A UNIQUE NAME: LOCAL FECAL OCCULT BLOOD TEST
The original reminder FECAL OCCULT BLOOD TEST has been copied into LOCAL FECAL
OCCULT BLOOD TEST.
Do you want to edit it now? YES
NAME: LOCAL FECAL OCCULT BLOOD TEST Replace <Enter>
REMINDER TYPE: LABORATORY TEST// <Enter>
PRINT NAME: Fecal Occult Blood Test Replace <Enter>
RELATED REMINDER GUIDELINE: VA-*COLORECTAL CANCER SCREEN (FOBT)
        // <Enter>
INACTIVE FLAG: ?
    Enter "1" to inactivate the reminder item.
     Choose from:
               INACTIVE
      1
INACTIVE FLAG: <Enter>
REMINDER DESCRIPTION:
Fecal occult blood test due every year for patients ages 50 and older with
no dx of colorectal cancer.
This reminder is based on guidelines provided by the Ambulatory Care
Expert Panel. It also satisfies the "Colorectal Cancer Screen - FOBT"
guidelines specified in the "Guidelines for Health Promotion and Disease
Prevention", M-2, Part IV, Chapter 9.
  EDIT? NO// <Enter>
```

Copying and Editing a Reminder, cont'd

```
TECHNICAL DESCRIPTION: . .
Operation/Procedure file. If this taxonomy needs modification, copy the
taxonomy to a new taxonomy for your site, and make the appropriate
modifications.
Copy the reminder to a new reminder for your local site's modifications.
NOTE: The Laboratory data is not available use in the reminder. When the
lab package begins passing CPT codes for fecal occult blood tests to PCE,
this reminder is ready to make use of the information.
EDIT? NO// <Enter>
Target Groups
DO IN ADVANCE TIME FRAME: 1M//<Enter>
SEX SPECIFIC: <Enter>
IGNORE ON N/A: ??
    This field allows the user to stop reminders from being printed in the
    "Clinical Maintenance" component of Health Summary if the reminder is N/A.
    This is free text that can contain any combination of the following
     codes:
     Code Description
     Α
           N/A due to not meeting age criteria.
           N/A due to the wrong sex.IGNORE ON N/A: <Enter>
Baseline frequency age range set
Select REMINDER FREQUENCY: 0Y//<Enter>
 REMINDER FREQUENCY: 0Y//<Enter>
                                            Use ^^ to exit
 MINIMUM AGE: 0//<Enter>
                                            option at these
 MAXIMUM AGE: 49//40
                                              prompts.
 AGE MATCH TEXT:
 Fecal Occult Blood Test (FOBT) not indicated in patients under 50.
 EDIT? NO// YES
REPLACE 50
                          REPLACE
                                    <Enter>
             WITH 40
EDIT Option: <Enter>
 AGE NO MATCH TEXT:
No existing text
    Edit? NO//<Enter>
Select REMINDER FREQUENCY: <Enter>
Target Findings
Select TARGET RESULT FINDINGS FILE: LABORATORY TEST//<Enter>
                                                              Use ^^ to exit option at
  TARGET RESULT FINDINGS FILE: LABORATORY TEST//<Enter
                                                                these prompts.
  TARGET RESULT DESCRIPTION:
Identify all laboratory tests which represent Fecal Occult Bhood tests in
the Target Result Findings Item multiple.
FOBT's may also be identified by defining a taxonomy in PCE Taxonomy that
identifies coded ranges of CPT or ICD Operation/Procedure codes that
represent this test.
    EDIT? NO// <Enter>
  Select TARGET RESULT FINDINGS ITEM: OCCULT BLOOD (STOOL)//<Enter>
  TARGET RESULT FOUND TEXT:
    No existing text
    Edit? NO//
```

Copying and Editing a Reminder, cont'd

TARGET RESULT NOT FOUND TEXT: No existing text Edit? NO// Taxonomy Findings Select TAXONOMY: VA-COLORECTAL CA//<Enter> TAXONOMY: VA-COLORECTAL CA//<Enter> MINIMUM AGE: 30 MAXIMUM AGE: <Enter> REMINDER FREQUENCY: 0Y//1Y FOUND TEXT: Patient known to have hx of colorectal cancer. Please verify appropriate

Use ^^ to exit option at these prompts.

tx & f/u is ongoing. Edit? NO// **<Enter>**

NOT FOUND TEXT:

No hx of colorectal cancer on file - presumed no hx.

Edit? NO// <Enter>

RANK FREQUENCY: ??

This optional field is used to rank the frequency and age ranges that are associated with this Taxonomy Finding.

This field is used for the situation 1) where more than one match is found among Taxonomy Findings, and/or Health Factor Findings and/or Computed Findings, and 2) where more than one of the Findings definitions has its own age range and frequency. The rank is used to define a priority or ranking that tells the reminder logic which age range and frequency should take precedence when there are multiple results found.

The value which can be entered in the Rank field should be a number from 1 to 999, or blank. The highest ranking (priority) is number 1. When there are multiple Findings found, the Finding with the highest rank will be used to set the frequency and age range which are used to determine when the reminder is due.

When the Rank field is blank (null) for this Taxonomy Finding, and also blank for the Health Factor and Computed Findings definitions, the reminder logic will use the frequency that will make the reminder occur most often. For example, a Health Factor Finding has age range 25-50 with a frequency of 6 months, and a Taxonomy Finding has age range 25-70 and a frequency of 1 year. The Health Factor age and frequency would be used for the reminder, since a 6 month interval is more frequent than 1 year interval.

RANK FREQUENCY: <Enter> USE IN DATE DUE CALC: ??

This optional field is used by the reminder logic to determine if the date of a match on the Taxonomy Finding should be used to determine the next date the reminder will be due. If there are multiple matches among the Findings, and this Taxonomy Finding is the the most recent Finding, then the reminder date due will be calculated from the encounter date of this Finding.

A blank in this field indicates the encounter date of the matched Taxonomy Finding will NOT be used to determine the next date the reminder will be due. The Taxonomy Finding encounter date and data WILL however be displayed in the clinical maintenance component as information.

```
Copying and Editing a Reminder, cont'd
     This field is very useful for the situation when the Targeted Result
     Findings AND this Taxonomy Finding should be used as valid patient results
     satisfying the reminder.
     Choose from:
       1
                VES
       0
  USE IN DATE DUE CALC: <Enter>
  USE IN APPLY LOGIC: ??
     This optional field is used by the user to indicate that this Taxonomy
     Finding should be included as part of the "Apply Logic". The Apply Logic
     is used to determine whether or not a reminder should be applied (given)
     to a patient. This is very useful for those situations where a reminder
     should only be given to, or NOT given to patients with a particular
     Taxonomy Finding, such as diabetes.
     This "Use in Apply Logic" field can be defined with one of the following
     coded values:
                        EQUATES TO BOOLEAN
       CODE
              VALUE
                        OPERATOR LOGIC
       ____
              BLANK
                       not included in Apply Logic (Use @ to delete value)
              AND
                        &(Finding)
              ΟR
                        !(Finding)
        1
              AND NOT
        ا &
                        &'(Finding)
                        !'(Finding)
        ! '
              OR NOT
     The code selected is used to create a default Boolean "Apply Logic"
     string for this reminder. The Apply Logic string always initially defaults
     to include (SEX)&(AGE), but will add &(Finding), !(Finding), &'(Finding),
     or !'(Finding) to the string depending on the code in this "Use in Apply
     Logic" field. If a more detailed definition of the Apply Logic is
     required, then the "Apply Logic" field in the PCE REMINDER/MAINTENANCE
     FILE (811.9) can be defined via FileMan. When the Apply Logic is defined
     using FileMan, the "Use in Apply Logic" field will be ignored by the
     reminder logic because the default "Apply Logic" is overriden by the
     contents of the "Apply Logic" field. To reactivate the default "Apply
     Logic", use FileMan to delete the contents of the "Apply Logic" field.
     Choose from:
                AND
       æ
       !
                OR
                AND NOT
       ا &
       ! '
                OR NOT
  USE IN APPLY LOGIC: <Enter>
Select TAXONOMY: <Enter>
TAXON GENERAL FOUND TEXT:
No existing text
  Edit? NO//
TAXON GENERAL NOT FOUND TEXT:
No existing text
  Edit? NO//
Health Factor Findings
Select HEALTH FACTOR FINDINGS ITEM: ACTIVATE FOBT CANCER SCREEN// <Enter>
```

HEALTH FACTOR FINDINGS ITEM: ACTIVATE FOBT CANCER SCREEN// <Enter>

MINIMUM AGE: <Enter>
MAXIMUM AGE: <Enter>
REMINDER FREQUENCY:

Copying and Editing a Reminder, cont'd

```
FOUND TEXT:
    No existing text
    Edit? NO// <Enter>
 NOT FOUND TEXT:
   No existing text
    Edit? NO// <Enter>
 RANK FREQUENCY:
 USE IN DATE DUE CALC: <Enter>
 USE IN APPLY LOGIC: <Enter>
Select HEALTH FACTOR FINDINGS ITEM:
HF GENERAL FOUND TEXT:
No existing text
 Edit? NO// <Enter>
HF GENERAL NOT FOUND TEXT:
No existing text
 Edit? NO// <Enter>
Computed Findings
Select ROUTINE: <Enter>
APPLY LOGIC: <Enter>
Select the reminder item to copy: <Enter>
          List Reminder Definitions
          Inquire about Reminder Item
  RΤ
   RE
          Add/Edit Reminder Item
   RC
          Copy Reminder Item
          Activate/Inactivate Reminders
  RA
          List Reminder Types Logic
   RT
   RP
          Reminder Reports...
          List Taxonomy Definitions
   TL
          Inquire about Taxonomy Item
   ΤI
  TE
          Edit Taxonomy Item
   TC
          Copy Taxonomy Item
   TA
          Activate/Inactivate Taxonomies
          Reminder Exchange
   RX
          Reminder GUI Parameters
   RG
Select PCE Reminder Maintenance Menu Option: <Enter>
```

Activate/Inactivate Reminders [PXRM (IN)/ ACTIVATE REMINDERS]

Use this option to make reminders active or inactive with Health Summary.

```
List Reminder Definitions
   RL
   RΙ
          Inquire about Reminder Item
          Add/Edit Reminder Item
   RE
   RC
          Copy Reminder Item
  RA
         Activate/Inactivate Reminders
         List Reminder Types Logic
  RT
         Reminder Reports...
   TL
         List Taxonomy Definitions
   ΤI
         Inquire about Taxonomy Item
   TE
          Edit Taxonomy Item
         Copy Taxonomy Item
   TC
         Activate/Inactivate Taxonomies
   TA
   RX
         Reminder Exchange
Select PCE Reminder Maintenance Menu Option: RA Activate/Inactivate
Reminders
Select PCE REMINDER/MAINTENANCE ITEM NAME: ?
Answer with PCE REMINDER/MAINTENANCE ITEM NAME, or REMINDER TYPE, or
    PRINT NAME
Do you want the entire 39-Entry PCE REMINDER/MAINTENANCE ITEM List? Y (Yes)
Choose from:
   CHOLESTEROL SCREEN (F)
   LOCAL 1
  LOCAL 2
  LOCAL FOBT
  VA-*BREAST CANCER SCREEN
  VA-*CERVICAL CANCER SCREEN
   VA-*CHOLESTEROL SCREEN (F)
   VA-*CHOLESTEROL SCREEN (M)
  VA-*COLORECTAL CANCER SCREEN (
  VA-*COLORECTAL CANCER SCREEN (
  VA-*FITNESS AND EXERCISE SCREE
  VA-*HYPERTENSION SCREEN
   VA-*INFLUENZA IMMUNIZATION
   VA-*PNEUMOCOCCAL VACCINE
  VA-*PROBLEM DRINKING SCREEN
   VA-*SEAT BELT AND ACCIDENT SCR
   VA-*SEATBELT AND ACCIDENT SCRE
   VA-*TETANUS DIPHTHERIA IMMUNIZ
   VA-*TETANUS DIPTHERIA IMMUNIZA
  VA-*TOBACCO USE SCREEN
   VA-*WEIGHT AND NUTRITION SCREE
   VA-ADVANCED DIRECTIVES EDUCATI
   VA-ALCOHOL ABUSE EDUCATION
   VA-BLOOD PRESSURE CHECK
   VA-BREAST EXAM
   VA-BREAST SELF EXAM EDUCATION
   VA-DIABETIC EYE EXAM
   VA-DIABETIC FOOT CARE ED.
   VA-DIABETIC FOOT EXAM
   VA-DIGITAL RECTAL (PROSTATE) E
  VA-EXERCISE EDUCATION
```

Activate/Inactivate Reminders, cont'd

```
VA-FECAL OCCULT BLOOD TEST
   VA-FLEXISIGMOIDOSCOPY
   VA-INFLUENZA VACCINE
   VA-MAMMOGRAM
   VA-NUTRITION/OBESITY EDUCATION
   VA-PAP SMEAR
   VA-PNEUMOVAX
   VA-PPD
   VA-PSA
   VA-SEAT BELT EDUCATION
   VA-SEATBELT EDUCATION
   VA-TOBACCO EDUCATION
   VA-WEIGHT
Select PCE REMINDER/MAINTENANCE ITEM NAME: CHOLESTEROL SCREEN (F)
INACTIVE FLAG: ?
     Enter "1" to inactivate the reminder item.
     Choose from:
                INACTIVE
      1
INACTIVE FLAG:
Select PCE REMINDER/MAINTENANCE ITEM NAME:
```

List Reminder Types Logic [PXRM REMINDER TYPES LOGIC]

This option lists the Reminder Types along with a summary of where the reminder's logic searches for data in **V***ISTA* to be used for the reminder type's target patient findings.

```
List Reminder Definitions
   RL
   RΙ
          Inquire about Reminder Item
         Add/Edit Reminder Item
   RE
   RC
         Copy Reminder Item
         Activate/Inactivate Reminders
  RA
  RP
         Reminder Reports...
   RT
         List Reminder Types Logic
  RΡ
        Reminder Reports
        List Taxonomy Definitions
   TL
   ΤI
         Inquire about Taxonomy Item
        Edit Taxonomy Item
   TE
         Copy Taxonomy Item
   TC
   TA
         Activate/Inactivate Taxonomies
  RX
         Reminder Exchange
Select PCE Reminder Maintenance Menu Option: List Reminder Types Logic
DEVICE: ;;999 ANYWHERE RIGHT MARGIN: 80//
PCE REMINDER TYPE LOGIC
                                               NOV 12,1998 16:21
                                                                   PAGE 1
NAME
   REMINDER LOGIC
EDUCATION
   See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary
   description field for an explanation of general reminder logic.
   Reminders defined with the "Education" Reminder Type have specific logic
   to look for the source of the patient's education TARGET RESULT FINDINGS.
   For education reminder types, the target findings are found in the V
   PATIENT ED file (#9000010.06, global AUPNVPED). The target education to
   search for will be based on the TARGET RESULT FINDINGS ITEM entries
   defined for the education reminder. Education Topics that need to be
   defined as TARGET RESULT FINDINGS ITEM entries must have been defined
    first in the EDUCATION TOPICS file (#9999999.09, global AUTTEDT).
   If the patient education given is captured in PCE as a CPT code, instead
   of through the Education Topics, then a PCE Taxonomy could be defined
   with the education CPT codes. The education CPT taxonomy could be
   defined in the Taxonomy Findings multiple of the education reminder
   definition. Then the generic taxonomy findings logic would search for
   educations in the V CPT file (#9000010.18, global AUPNVCPT).
EXAMINATION
   See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary
   description field for an explanation of general reminder logic.
   Reminders defined with the "Examination" Reminder Type have specific
   logic to look for the source of the patient's examination TARGET RESULT
   FINDINGS.
```

List Reminder Types Logic, cont'd

For exam reminder types, the target result findings are found in the V EXAM file (#9000010.13, global AUPNVXAM). The target exams to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the exam reminder. Exams that need to be defined as TARGET RESULT FINDINGS ITEM entries must have been defined first in the EXAM file (#9999999.15, global AUTTEXAM).

If the patient exam performed is captured in PCE as a CPT code, instead of through the definition of exams in the EXAM file, then a PCE Taxonomy could be defined with the exam CPT codes. The exam CPT taxonomy could be defined in the Taxonomy Findings multiple of the exam reminder definition. Then the generic taxonomy findings logic would search for patient exams in the V CPT file (#9000010.18, global AUPNVCPT).

IMMUNIZATION

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Immunization" Reminder Type have specific logic to look for the source of the patient's immunization TARGET RESULT FINDINGS

For immunization reminder types, the patient's target result findings are found in the V IMMUNIZATION file (#9000010.11, global AUPNVIMM). The target immunizations to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the immunizations reminder. Immunizations that need to be defined as TARGET RESULT FINDINGS ITEM entries must have been defined first in the IMMUNIZATION file (#9999999.14, global AUTTIMM).

If the patient immunization given is captured in PCE as a CPT code, instead of through the definition of immunizations in the IMMUNIZATION file, then a PCE Taxonomy could be defined with the immunization CPT codes. The immunization CPT taxonomy could be defined in the Taxonomy Findings multiple. Then the generic taxonomy findings logic would search for immunizations in the V CPT file (#9000010.18, global AUPNVCPT).

LABORATORY TEST

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Laboratory Test" Reminder Type have specific logic to look for the source of the patient's laboratory TARGET RESULT FINDINGS

For lab reminder types, the patient's target result findings are found in the Lab packages LAB DATA file (#63, global LR). The target laboratory tests to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the lab reminder. The Laboratory Tests that can be defined as TARGET RESULT FINDINGS ITEMs are defined in the Laboratory Test file (#60, global ^LAB(60). The Health Summary laboratory extract call (XTRCT^GMTSLRSE) is used to obtain the most recent date of the lab test(s) for the reminder.

If the patient lab test performed is captured in PCE as a CPT code, instead of through the definition of Laboratory Tests, then a PCE Taxonomy could be defined with the lab CPT codes. The lab CPT taxonomy could be defined in the Taxonomy Findings multiple. Then the generic taxonomy findings logic would search for lab tests in the V CPT file (#9000010.18, global AUPNVCPT).

List Reminder Types Logic, cont'd

MEASUREMENT

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Measurement" Reminder Type have specific logic to look for the source of the patient's measurement TARGET RESULT FINDINGS.

For measurement reminder types, the patient's target result findings are found in the GMRV VITAL MEASUREMENT file (#120.5, global GMR(120.5). The target measurements to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the measurement reminder. Measurements that need to be defined as TARGET RESULT FINDINGS ITEM entries must have been defined first in the GMRV VITAL TYPE file (#120.51, global GMRD(120.51).

PROCEDURE

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Procedure" Reminder Type have specific logic to look for the source of the patient's procedure TAXONOMY FINDINGS.

Procedure reminders should be used when the only source of the reminder target result findings is the V CPT file(#9000010.18, global AUPNVCPT) or the PTF file (#45, global ^DGPT). The TAXONOMY FINDING multiple in the procedure reminder needs to be defined with a taxonomy entry from the PCE TAXONOMY file (#811.2, global PXD(811.2). A taxonomy entry allows coded values to be related as a group, identified by the taxonomy name. Procedures can be identified in a PCE Taxonomy entry by defining the coded CPT code ranges and the ICD Operation/Procedure code ranges.

The STANDARD CODED ITEMS processing of procedures is incorporated into the general reminder logic, so that patient taxonomy findings could be an alternative way to search for reminder type results.

RADIOLOGY PROCEDURE

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Radiology Procedure" Reminder Type have specific logic to look for the source of the patient's radiology TARGET RESULT FINDINGS.

For radiology procedure reminder types, the patient's target result findings are found in the RAD/NUC MED PATIENT file (#70, global RADPT). The target radiology procedures to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the immunizations reminder. Radiology procedures that need to be defined as TARGET RESULT FINDINGS ITEM entries must have been defined first in the RAD/NUC PROCEDURES file (#71, global RAMIS(71).

If the patient radiology procedure performed is captured in PCE as a CPT code, instead of through the definition of radiology procedures in the RAD/NUC PROCEDURES file, then a PCE Taxonomy could be defined with the radiology procedure CPT codes. The immunization CPT taxonomy could be defined in the Taxonomy Findings multiple. Then the generic taxonomy findings logic would search for immunizations in the V CPT file (#9000010.18, global AUPNVCPT).

List Reminder Types Logic, cont'd

SKIN TEST

See the PCE REMINDER/MAINTENANCE ITEM file's (#811.9) data dictionary description field for an explanation of general reminder logic. Reminders defined with the "Skin Test" Reminder Type have specific logic to look for the source of the patient's skin test TARGET RESULT FINDINGS.

For skin test reminder types, the patient's target result findings are found in the V SKIN TEST file (#9000010.12, global AUPNVSK). The target skin tests to search for will be based on the TARGET RESULT FINDINGS ITEM entries defined for the skin test reminder. Skin tests that need to be defined as TARGET RESULT FINDINGS ITEM entries must have been defined first in the SKIN TEST file (#9999999.28, global AUTTSK).

If the patient skin test given is captured in PCE as a CPT code, instead of through the definition of skin tests in the SKIN TEST file, then a PCE Taxonomy could be defined with the skin test CPT codes. The skin test CPT taxonomy could be defined in the Taxonomy Findings multiple. Then the generic taxonomy findings logic would search for skin tests in the V CPT file (#9000010.18, global AUPNVCPT).

Press RETURN to continue...

Reminder Reports [PXRM REMINDER REPORTS]

Currently, there is one PCE reminder reports that clinicians can use for summary or detailed level information about patients' reminders due.

Reminders Due Report

For a selected reminder, the report lists any reminders that are currently due. Available report options are:

- Individual Patient
- Hospital Location (all patients with encounters)
- OE/RR Team (all patients in team)
- PCMM Provider (all practitioner patients)
- PCMM Team (all patients in team)

A **summary** report displays totals of how many patients of those selected have reminders due.

A **detailed** report displays patients with reminders due in alphabetical order. The report displays for each patient the date the reminder is due, the date the reminder was last done, and next appointment date. The detailed report also (optionally) lists all future appointments. Detailed reports for Location or Provider may also be sorted by next appointment date.

Reports by Hospital Location, Provider, or Team print a separate report for each Hospital Location, Provider, or Team selected. Reports for all Hospital Locations are not split by location.

The report by Hospital Location can report either current inpatients or admissions within a selected date range.

Report templates

The selection criteria used for the Reminders Due reports may be saved into a report template file, with a user-specified identifier, as the report is being run.

When running the Reminder Due report, you may select from an existing templates and run a new report using the parameters from the selected template. The prompts for date range and sort order are dsiplayed, but all other parameters are taken from the previous report.

If you select a print template, you may also edit the template and/or copy to a new template before running the report.

Example: Summary Report by PCMM Provider

This reports lists the total number of reminders due for patients allocated to a provider within PCMM. The summary report may be run for several reminders. (The detailed report can only include one reminder.)

A future date may be entered if a report of reminders becoming due is required. Today is the default date

```
Select PCE Reminder Maintenance Menu Option: RP Reminder Reports
         Reminders Due Report
Select an existing REPORT TEMPLATE or return to continue: ?
Answer with REMINDER REPORT TEMPLATE NAME
Choose from:
            TOM'S LIST
   COPY
  DEFAS
           TANA'S LIST
  NEWONE ANA'S LIST
           TEST TITLE
  TEST
Select an existing REPORT TEMPLATE or return to continue: <Enter>
Select one of the following:
                   Individual Patient
                  Location
                  OE/RR Team
         Ω
                   PCMM Provider
                   PCMM Team
PATIENT SAMPLE: L// PCMM Provider
Select PROVIDER: DEFA, TANA
                                  TD
Select another PROVIDER:
    Select one of the following:
                   Primary care assigned patients only
                   All patients on list
PRIMARY CARE ONLY OR ALL: P// All patients on list
Enter DUE EFFECTIVE DATE: Dec 08, 1998//<Enter> (DEC 08, 1998)
    Select one of the following:
         D
                   Detailed
                   Summary
TYPE OF REPORT: S// Summary
Select REMINDER: VA-WEIGHT
Select another REMINDER: VA-BLOOD PRESSURE CHECK
Select another REMINDER: <Enter>
DEVICE: HOME// <Enter> ALPHA
Evaluating reminders done
```

Summary Report by PCMM Provider, cont'd

```
Dec 08, 1998 4:51:42 pm Page 1
                   PCE Reminders Due Report - Summary Report
  Report Criteria:
          Patient Sample: PCMM Prov:
PCMM Provider: DEFA, TANA
All/Primary: All patien
                                PCMM Provider
                                All patients on list
          Due Effective Date: 12/8/98
          Date run:
                                 12/8/98 4:50:54 pm
Enter RETURN to continue or '^' to exit: <Enter>
                              Dec 08, 1998 4:51:42 pm Page 2
                    PCE Reminders Due Report - Summary Report
Reminders Due for DEFA, TANA for 12/8/98
                                                    # Patients with
                                         Reminder Applicable Reminder Due
                                          -----
                                                               _____
1
     Weight
                                                                           6
2
     Blood Pressure Check
                                                           8
                                                                           5
Report run on 8 patients.
End of the report. Press ENTER/RETURN to continue... <Enter>
```

The column Reminder Applicable excludes patients (e.g. dead or non-diabetic) for whom the selected reminders are not required. Excluded patients are included in the "Report Run on" total.

Detailed report by PCMM Provider (Next Appointment only)

This report provides details of patients with reminders due who are allocated to a provider within PCMM. This example report displays only the next appointment for each patient. The option to display all future appointments for the patient is explained in the example for Individual Patients.

```
Select an existing REPORT TEMPLATE or return to continue: ?
Answer with REMINDER REPORT TEMPLATE NAME
Choose from:
   COPY
             TOM'S LIST
              TANA'S LIST
   NEWONE
            TEST TITLE
   TEST
Select an existing REPORT TEMPLATE or return to continue: cOPY
TOM'S LIST
          Report Title:
                               TANA'S MANUAL LIST
          Report Title: TANA'S MANUAL L.
Report Type: Detailed Report
Patient Sample: OE/RR Team
          OE/RR Team:
                                 TANA'S MANUAL LIST
          Reminder:
                                 2 VA-TOBACCO EDUCATION
          Template Name:
                                COPY
          Date last run:
                                 n/a
```

Detailed report by PCMM Provider, cont'd

```
WANT TO EDIT 'COPY' TEMPLATE: N// ??
Enter 'N' to run the report using the parameters from the existing
template. Enter 'Y' to copy/edit the template.
WANT TO EDIT 'COPY' TEMPLATE: N//<Enter> O
Enter DUE EFFECTIVE DATE: Jun 11, 1999// (JUN 11, 1999)
Select one of the following:
          D
                    Detailed
          S
                    Summary
TYPE OF REPORT: S// Detailed
Display All Future Appointments: N// YES
Sort by Next Appointment date: N//YES
SELECT REMINDER: VA-BLOOD PRESSURE CHECK
DEVICE: HOME// ANYWHERE Right Margin: 80// <Enter>
Evaluating reminders done
                                       Jun 11, 1999 12:10:54 pm Page 1
                 PCE Reminders Due Report - Detailed Report
 Report Criteria:
         Report Title:
                             TOM'S LIST
         Patient Sample: OE/RR Team
OE/RR Team: TOM'S LIST
         Appointments:
                             VA-TOBACCO EDUCATION
                             Next Appointment only
         Due Effective Date: 6/11/1999
                      COPY
                             6/11/1999 12:06:22 pm
         Date run:
         Template Name:
Enter RETURN to continue or '^' to exit: <Enter>
                                       Jun 11, 1999 12:11:01 pm Page 2
                  PCE Reminders Due Report - Detailed Report
Reminders Due for TOM'S LIST for 6/11/1999
Tobacco Cessation Education: 8 patients have reminder Due
                                      Date Due Last Done Next Appt
                                      -----
                                                 -----
                                     6/11/1999 N/A
6/11/1999 N/A
    AARON,OKPT (8900)
                                                            None
    ABB, HENRY (8372)
                                                            None
                                     6/11/1999 N/A
3
    GARGANTUA, FELIPE (6789)
                                                            None
    GREEN, DEAN (9987)
4
                                     6/11/1999 N/A
                                                            None
5
    HAND, DON (9244)
                                     6/11/1999 N/A
                                                            None
                                     6/11/1999
                                                N/A
6
    LAB,1 (4487)
                                                            None
    PROS, JOHN (6411)
                                      6/11/1999
                                                 N/A
                                                             None
Report run on 7 patients.
End of the report. Press ENTER/RETURN to continue...
```

The date the reminder is due, date last done, and next appointment date are displayed for each patient.

Detailed Report by Individual Patient (All Future Appointments)

All future appointments for each patient can be reported on the detailed report. This example is of a detailed report for Individual Patients.

Nov 30, 1998 12:01:52 pm Page 2 PCE PATIENT REMINDERS DUE - Detailed Report for 11/30/98 Weight: 2 patients have a reminder due Date Due Last Done Next Appt HOOD, ROBIN (2591P) 7/1/97 7/1/96 12/1/98 12/01/98 08:00 ONCOLOGY INPATIENT APPOINTMENT 12/01/98 10:00 CARDIOLOGY 12/02/98 10:00 PULMONARY CLINIC INPATIENT APPOINTMENT INPATIENT APPOINTMENT SMITH, JANE (5656) 11/30/98 N/A None Report run on 2 patients.

Summary Report by Location

The report by hospital Location evaluates reminders due for patients attending the selected hospital Location within a range of dates. If a prior date range is selected, all patients with encounters are selected. If a future date range is selected, patients with appointments for the location are selected.

The reports for selected hospital locations list reminders due for each location separately. The report for all locations reports reminders due for all locations combined.

Hospital Location, Clinic Stop, or Clinic Group code can be selected.

Reminders due today are reported.

```
Select PCE Reminder Maintenance Menu Option: RP Reminder Reports
          Reminders Due Report
Select an existing REPORT TEMPLATE or return to continue: ?
 Answer with REMINDER REPORT TEMPLATE NAME
Choose from:
   LEFAS TANA'S LIST
NEWONE ANA'S TEST
Select an existing REPORT TEMPLATE or return to continue: <Enter>
     Select one of the following:
          I Individual Patient
                    Location
          L
                    OE/RR Team
PCMM Provider
          0
                    PCMM Team
PATIENT SAMPLE: L// Location
Select FACILITY: SALT LAKE CITY//<Enter>
                                                  UT
Select another FACILITY: <Enter>
     Select one of the following:
                All Outpatient Locations (excluding wards)
All Inpatient Locations (wards only)
          HA
          HAI
          HS Selected Hospital Locations
CA All Clinic Stops(with encounters)
          CS Selected Clinic Stops
GS Selected Clinic Groups
Determine encounter counts for: HS// HS Selected Hospital Locations
LOCATION: CARDIOLOGY
                                TEDD, DR
Select another LOCATION:
     Select one of the following:
          P Previous Encounters
          F
                     Future Appointments
```

Summary Report by Location, cont'd

```
PREVIOUS ENCOUNTERS OR FUTURE APPOINTMENTS: P// Previous Encounters
Enter ENCOUNTER BEGINNING DATE: 8/1/96 (AUG 01, 1996)
Enter ENCOUNTER ENDING DATE: 9/1/96 (SEP 01, 1996)
Select SERVICE CATEGORIES: AI//<Enter>
     Select one of the following:
         D
                   Detailed
         S
                   Summary
TYPE OF REPORT: S// Summary
Select REMINDERS: VA-D
    1
        VA-DIABETIC EYE EXAM
        VA-DIABETIC FOOT CARE ED.
        VA-DIABETIC FOOT EXAM
       VA-DIGITAL RECTAL (PROSTATE) EXAM
CHOOSE 1-4: 1 VA-DIABETIC EYE EXAM
Select another REMINDER: VA-BLOOD PRESSURE CHECK
Select another REMINDER: VA-WEIGHT
Select another REMINDER:
DEVICE: HOME// <Enter> ANYWHERE RIGHT MARGIN: 80//
Sorting Encounters /
Evaluating Reminders done
```

```
Dec 09, 1998 10:16:49 am Page 1

PCE Reminders Due Report - Summary Report

Report Criteria:
Patient Sample: Location
Location: Selected Hospital Locations (Prior Encounters)
CARDIOLOGY
Date Range: 8/1/96 to 9/1/96
Date run: 12/9/98 10:15:34 am
Service categories: AI
A - AMBULATORY
I - IN HOSPITAL

Enter RETURN to continue or '^' to exit:
```

```
Dec 09, 1998 10:16:57 am Page 2
                  PCE Reminders Due Report - Summary Report
Facility: SALT LAKE CITY 660
Reminders Due for CARDIOLOGY for 8/1/96 to 9/1/96
                                                # Patients with
                                      Reminder Applicable Reminder Due
                                      _____
1
    Diabetic Eye Exam
                                                      19
                                                                    19
    Blood Pressure Check
                                                      32
2
                                                                    32
3
    Weight
                                                      32
                                                                    32
Report run on 32 patients.
```

List Taxonomy Definitions [PXRM TAXONOMY LIST]

Use this option to list the current definition of taxonomies defined in the Taxonomy file, which defines the coded values from ICD Diagnosis, ICD Operation/ Procedures, or CPT codes that are part of a clinical category (taxonomy). These taxonomy low and high range definitions are used by the Clinical Reminders logic to determine if a patient has coded values in the clinical files that indicate the patient is part of the taxonomy.

	E Reminder Maint ;999 ANYWHERE		ion: TL List Taxonomy Definitions
		RIGHI MARGIN:	
PCE TAXON NAME			NOV 12,1998 16:23 PAGE 1
	LOW	HIGH	
		CODED	COURCE ELLE
	VALUE	VALUE 	SOURCE FILE
LOCAL 660	1		
	3	4	ICD DIAGNOSIS
TTEST			
	044.9	044.9	ICD DIAGNOSIS
	042.0	043.9 V60.0	ICD DIAGNOSIS
	V60.0	V6U.U	ICD DIAGNOSIS
	303.0	304.90 305.0	ICD DIAGNOSIS
	305.0	305.0	ICD DIAGNOSIS
VA-ALCOHO		001 0	
	291	291.9 303.93	ICD DIAGNOSIS
	303	303.93 305.03	ICD DIAGNOSIS
	305		
	571 760.71	571.3 760.71	ICD DIAGNOSIS
	790.3	700.71	ICD DIAGNOSIS
	980.0	790.3 980.0 357.5 425.5	ICD DIAGNOSIS
	357.5	357 5	ICD DIAGNOSIS
	425.5	425.5	ICD DIAGNOSIS
		535.31	ICD DIAGNOSIS
			ICD DIAGNOSIS
VA-ALCOHO	LISM SCREENING		
	V79.1	V79.1	ICD DIAGNOSIS
VA-BREAST	'TUMOR		
	174	174.9 198.81	ICD DIAGNOSIS
	198.81	198.81	ICD DIAGNOSIS
	238.3	238.3	ICD DIAGNOSIS
	239.3	239.3	ICD DIAGNOSIS
	233.0	233.0	ICD DIAGNOSIS
	217	217 610.9	ICD DIAGNOSIS
	611	611	ICD DIAGNOSIS
i	611.5	611.5	ICD DIAGNOSIS

List Taxonomy Definition, cont'd

611.71 611.72 ICD DIAGNOSIS 611.9 611.9 611.9 ICD DIAGNOSIS 675.1 675.16 ICD DIAGNOSIS 757.6 757.6 ICD DIAGNOSIS 922.0 922.0 ICD DIAGNOSIS 922.0 793.8 ICD DIAGNOSIS 793.8 793.8 ICD DIAGNOSIS VA-CERVICAL CA/ABNORMAL PAP 180 180.9 ICD DIAGNOSIS 198.82 198.82 ICD DIAGNOSIS 198.82 198.82 ICD DIAGNOSIS 795.0 795.0 ICD DIAGNOSIS VA-CERVICAL CANCER SCREEN 0091 0091 CPT V76.2 V76.2 ICD DIAGNOSIS 00060 00061 CPT P3000 P3001 CPT P3000 P3001 CPT 93.46 91.46 ICD OPERATION/PROCEDURE VA-CHOLESTEROL 60054 G0054 G0054 CPT 83718 83721 CPT 84765 82470 CPT 82465 82470 CPT 8270 83700 83705 CFT VA-COLORECTAL CANCER SCREEN V76.41 V76.41 ICD DIAGNOSIS VA-COLOR	List Taxol	nomy Definition, (coni a		
611.9 611.9 1.10 DIAGNOSIS 675.14 675.14 1CD DIAGNOSIS 757.6 757.6 1CD DIAGNOSIS 922.0 922.0 1CD DIAGNOSIS 922.0 922.0 1CD DIAGNOSIS VB 22.0 120 DIAGNOSIS VB 23.1 120 DIAGNOSIS VB 23.1 123.3 1CD DIAGNOSIS VB 24.0 120 DIAGNOSIS		611 71	611 72	TCD DIAGNOSIS	
675.1 675.6 757.6 1CD DIAGNOSIS 757.6 757.6 757.6 757.6 1CD DIAGNOSIS 922.0 922.0 922.0 1CD DIAGNOSIS 922.0 922.0 1CD DIAGNOSIS 922.0 922.0 1CD DIAGNOSIS 923.8 793.8 1CD DIAGNOSIS VIO.3 VIO.3 VIO.3 1CD DIAGNOSIS VIO.3 1CD DIAGNOSIS VIO.3 VIO.3 1CD DIAGNOSIS VIO.3 1CD DIAGNOSIS VIO.3 VIO.3 1CD DIAGNOSIS VIO.3 128.2 1CD DIAGNOSIS VIO.3 1298.82 1CD DIAGNOSIS VIO.3 1298.82 1CD DIAGNOSIS VIO.3 1CD DIAGNOSIS					
757.6 757.6 1CD DIAGNOSIS 922.0 922.0 922.0 1CD DIAGNOSIS 793.8 793.8 1CD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VIO.3 VIO.5 ICD DIAGNOSIS VIO.5 VIO.5 VIO.5 ICD DIAGNOSIS VIO.6 VIO.7					
922.0 922.0 ICD DIAGNOSIS 793.8 793.8 1CD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VIO.3 VIO.3 ICD DIAGNOSIS VA-CERVICAL CA/ABNORMAL PAP 180 180.9 ICD DIAGNOSIS 198.82 198.82 10D DIAGNOSIS 198.82 198.82 10D DIAGNOSIS 795.0 795.0 ICD DIAGNOSIS VA-CERVICAL CANCER SCREEN Q0091 Q0091 CPT V76.2 V76.2 ICD DIAGNOSIS Q0060 Q0060 Q0061 CPT P3000 P3001 CPT P3000 P3001 CPT 91.46 91.46 ICD OPERATION/PROCEDURE VA-CHOLESTEROL G0054 G0054 G0054 83718 83721 CPT 80061 80061 CPT 83708 83721 CPT 80065 82470 CPT 83700 83705 CPT VA-COLORECTAL CA 154.0 154.8 ICD DIAGNOSIS 197.5 197.5 ICD DIAGNOSIS VA-COLORECTAL CA 154.0 154.8 ICD DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V76.41 ICD DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V65.41 ICD DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V65.41 ICD DIAGNOSIS VA-EXERCISE COUNSELING V65.41 V65.41 ICD DIAGNOSIS VA-FLEXISIGMOIDOSCOPY 45.24 45.30 45385 CPT VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 494.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 495.0 120 ILD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 496 496 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 497.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 498.0 120 ILD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 499.0 496 ICD DIAGNOSIS 428.9 ICD DIAGNOSIS		6/5.1			
793.8 793.8 ICD DIAGNOSIS V10.3 V10.3 V10.3 VA-CERVICAL CA/ABNORMAL PAP 180 180.9 ICD DIAGNOSIS 198.82 198.82 ICD DIAGNOSIS 233.1 233.3 ICD DIAGNOSIS 795.0 795.0 ICD DIAGNOSIS VA-CERVICAL CANCER SCREEN 00091 00091 CPT V76.2 V76.2 ICD DIAGNOSIS 00060 00061 CPT P3000 P3001 CPT 88150 88150 CPT 91.46 91.46 ICD OPERATION/PROCEDURE VA-CHOLESTEROL 60054 G0054 CPT 83718 83721 CPT 83718 83721 CPT 83061 80061 CPT 82465 82470 CPT 82465 82470 CPT 82465 82470 CPT 8216.0 154.8 ICD DIAGNOSIS VA-COLORECTAL CA 154.0 154.8 ICD DIAGNOSIS 197.5 197.5 ICD DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V76.41 ICD DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V65.41 ICD DIAGNOSIS VA-EXERCISE COUNSELING V65.41 V65.41 ICD DIAGNOSIS VA-FLEXISIGMOIDOSCOPY 45.24 45.34 ICD DIAGNOSIS VA-FLEXISIGMOIDOSCOPY 45.24 45.34 ICD DIAGNOSIS VA-FOBT 82270 82273 CPT VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 494.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 494.0 493.91 ICD DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 494.0 494.91 ICD DIAGNOSIS VA-DIAGNOSIS VA-DIAGNOSIS VA-HIGH RISK FOR FLU/PNEUMONIA 494.0 494.91 ICD DIAGNOSIS		757.6			
VA-CERVICAL CA/ABNORMAL PAP 180		922.0	922.0	ICD DIAGNOSIS	
VA-CERVICAL CA/ABNORMAL PAP 180		793.8	793.8	ICD DIAGNOSIS	
VA-CERVICAL CA/AENORMAL PAP		V10 3		TCD DIAGNOSIS	
180	VA GEDVITO			ICD DINGNODID	
233.1	VA-CERVICE			TGD DIAGNOGIG	
233.1			180.9		
VA-CERVICAL CANCER SCREEN					
VA-CERVICAL CANCER SCREEN		233.1	233.3	ICD DIAGNOSIS	
VA-CERVICAL CANCER SCREEN					
Q0091					
Q0091	VA-CERVICA	AI. CANCER SCREEN			
\$\begin{array}{c c c c c c c c c c c c c c c c c c c	VII CHICVICI			CDT	
Q0060					
P3000					
88150 88150 91.46 P1.46				CPT	
88150 88150 91.46 P1.46		P3000	P3001	CPT	
91.46 91.46 ICD OPERATION/PROCEDURE				CPT	
VA-CHOLESTEROL G0054 G0054 G3718 B3718 B3712 CPT B3700 B32465 B2470 CPT B3700 B3705 CPT VA-COLORECTAL CA 154.0 154.8 197.5 197.5 197.5 10D DIAGNOSIS VA-COLORECTAL CANCER SCREEN V76.41 V76.41 ICD DIAGNOSIS VA-DIABETES 250 250.9 ICD DIAGNOSIS VA-EXERCISE COUNSELING V65.41 V65.41 V65.41 ICD DIAGNOSIS VA-FLEXISIGMOIDOSCOPY 45.24 45.30 45.385 CPT VA-FOBT 82270 82273 CPT VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 493.0 493.0 496 496 1CD DIAGNOSIS VA-BARTION/PROCEDURE 45.25 1CD DIAGNOSIS CPT VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 496 496 1CD DIAGNOSIS 429.2 429.2 429.2 1CD DIAGNOSIS 428.0 428.9 1CD DIAGNOSIS 429.1 1CD DIAGNOSIS					
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80061					
82465 82470 CPT		83718	83721	CPT	
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VA-COLORECTAL CA 154.0 154.8 197.5 197.5 230.3 VA-COLORECTAL CANCER SCREEN V76.41 V76.		82465	82470	CPT	
VA-COLORECTAL CA 154.0		83700	83705	CPT	
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VA-COLORECTAL CANCER SCREEN				ICD DIAGNOSIS	
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VA-EXERCISE COUNSELING		V76.41	V76.41	ICD DIAGNOSIS	
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VA-EXERCISE COUNSELING	VA-DTARETE	7.5			
VA-EXERCISE COUNSELING	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		250 9	TOD DIAGNOSIS	
VA-FLEXISIGMOIDOSCOPY 45.24		230	430.9	TOD DIAGNOSIS	
VA-FLEXISIGMOIDOSCOPY 45.24	173 EVED CT	DE COINCET TYC			
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45.24 45.24 ICD OPERATION/PROCEDURE 45330 45385 CPT VA-FOBT 82270 82273 CPT VA-HIGH RISK FOR FLU/PNEUMONIA 493.0 493.91 ICD DIAGNOSIS 496 496 ICD DIAGNOSIS 250.00 250.9 ICD DIAGNOSIS 429.2 429.2 ICD DIAGNOSIS 429.2 429.2 ICD DIAGNOSIS 428.0 428.9 ICD DIAGNOSIS 491.0 491.9 ICD DIAGNOSIS		V65.41	V65.41	ICD DIAGNOSIS	
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491.0 491.9 ICD DIAGNOSIS					
U44.9 044.9 ICD DIAGNOSIS					
		044.9	044.9	ICD DIAGNOSIS	

List Taxonomy Definition, cont'd

List Taxonomy Definition	e, cont'd	
042.0	043.9	ICD DIAGNOSIS
V42.0	V42.0	ICD DIAGNOSIS
585	585	ICD DIAGNOSIS
V58.1	V58.1	ICD DIAGNOSIS
V66.2	V66.2	ICD DIAGNOSIS
99.52	99.52	ICD OPERATION/PROCEDURE
V67.2	V67.2	ICD DIAGNOSIS
V 0 7 . Z	V O 7 • 2	ICD DINGNODID
VA-HIGH RISK FOR TB		
044.9	044.9	ICD DIAGNOSIS
042.0	043.9	ICD DIAGNOSIS
V60.0	V60.0	ICD DIAGNOSIS
303.0	304.90	ICD DIAGNOSIS
305.0	305.0	ICD DIAGNOSIS
VA-HYPERTENSION	303.0	ICD DIAGNOSIS
401.0	405.99	ICD DIAGNOSIS
401.0	403.99	ICD DIAGNOSIS
VA-HYPERTENSION SCREEN		
V81.1	V81.1	ICD DIAGNOSIS
80060	80060	CPT
00000	00000	CII
VA-HYSTERECTOMY		
68.3	68.9	ICD OPERATION/PROCEDURE
VA-INFLUENZA IMMUNIZATIO	N	
V04.8	V04.8	ICD DIAGNOSIS
90724	90724	CPT
Q0034	Q0034	CPT
G0008	G0008	CPT
99.52	99.52	ICD OPERATION/PROCEDURE
VA-MAMMOGRAM/SCREEN	=	
76090	76092	CPT
V76.1	V76.1	ICD DIAGNOSIS
VA-MASTECTOMY		
	0E 23	ICD ODEDATION/DDOCEDUDE
85.23	85.23	ICD OPERATION/PROCEDURE
85.41	85.48	ICD OPERATION/PROCEDURE
19140	19140	CPT
19160	19160	CPT
19162	19162	CPT
19180	19180	CPT
19182	19182	CPT
19200	19200	CPT
19220	19220	CPT
T1950	T1999	CPT
VA-NUTRITION	260	TOP PIAGNOSIS
260	260	ICD DIAGNOSIS
261	261	ICD DIAGNOSIS
263	263.2	ICD DIAGNOSIS
263.8	263.8	ICD DIAGNOSIS
263.9	263.9	ICD DIAGNOSIS
264	264.9	ICD DIAGNOSIS
265	265.2	ICD DIAGNOSIS
266	266.9	ICD DIAGNOSIS
267	267	ICD DIAGNOSIS

List Taxonomy Definition, cont'd

List Taxo	nomy Definition,	cont a	
	268	268.9	ICD DIAGNOSIS
	269	269.9	ICD DIAGNOSIS
	281.1	281.11	ICD DIAGNOSIS
	783.0	783.4	ICD DIAGNOSIS
	377.33	377.33	ICD DIAGNOSIS
	425.7	425.7	ICD DIAGNOSIS
	760.4	760.4	ICD DIAGNOSIS
	783.6	783.9	ICD DIAGNOSIS
	V69.1	V69.1	
VA-OBESIT	Y		
	278.0	278.01	ICD DIAGNOSIS
	783.1	783.1	ICD DIAGNOSIS
	43842	43842	CPT
	43846	43846	CPT
	44131	44131	CPT
	99078	99078	CPT
TA DETETERA	COCCAT TACCENTE		
AW-ENFOMO	COCCAL VACCINE 99.55	00 55	TOD ODERATION/DECORDINE
		99.55	ICD OPERATION/PROCEDURE
	99.59	99.59	ICD OPERATION/PROCEDURE
	G0009	G0009	CPT
	90732	90732	CPT
	V06.6	V06.6	ICD DIAGNOSIS
VA-PROSTA			
	185	185	ICD DIAGNOSIS
	198.82	198.82	ICD DIAGNOSIS
	233.4	233.4	ICD DIAGNOSIS
VA-PSA	0.41.50	0.44.50	
	84153	84153	CPT
777 CYEEUX	COUNSELING		
VA-SAFEII	V65.43	V65.43	ICD DIACNOCIC
	V05.43	V05.43	ICD DIAGNOSIS
VA-TB/POS	בתבנוה טטט		
VA-ID/POS		010 0	TOP DIAGNOSTS
	010.0	018.9	ICD DIAGNOSIS
	795.5	795.5	ICD DIAGNOSIS
773 MDDD33***			
vA-TETANU	S DIPHTHERIA	00703	CDE
	90700	90703	CPT
	90711	90711	CPT
	90718	90721	CPT
	99.36	99.38	ICD OPERATION/PROCEDURE
	V03.5	V03.5	ICD DIAGNOSIS
	V03.7	V03.7	ICD DIAGNOSIS
	V06.1	V06.5	ICD DIAGNOSIS
VA-TOBACC			
	305.1	305.1	ICD DIAGNOSIS
	305.10	305.11	ICD DIAGNOSIS
	V15.82	V15.82	ICD DIAGNOSIS
VA-WEIGHT	AND NUTRITION S		
	V65.3	V65.3	ICD DIAGNOSIS
	V77.8	V77.9	ICD DIAGNOSIS
Press RET	URN to continue.		

Inquire about Taxonomy Item [PXRM TAXONOMY INQUIRY]

Use this option to list the current definition of a single taxonomy, including the same information as the Taxonomy List option.

```
Select PCE Reminder Maintenance Menu Option: TI Inquire about Taxonomy Item
Select PCE Taxonomy Item: VA-TOBACCO USE
                                                 Tobacco use codes
DEVICE: HOME// ;;999 ANYWHERE
                                 RIGHT MARGIN: 80// <Enter>
                                         Nov 12, 1998 4:26:07 pm Page 1
                       PCE Inquire about Taxonomy Item
PCE Taxonomy VA-TOBACCO USE
    Range 305.1-305.1 file ICD Diagnosis.
                  ICD9 Diagnosis
                ______
      305.1 TOBACCO USE DISORDER
    Range 305.10-305.11 file ICD Diagnosis.
      Code
                       ICD9 Diagnosis
     305.10 TOBACCO USE DISORDER UNSPECIFI
305.11 TOBACCO ABUSE-CONTINUOUS
    Range V15.82-V15.82 file ICD Diagnosis.
              ICD9 Diagnosis
      -----
                _____
     V15.82 HX-TOBACCO USE
Select PCE Taxonomy Item:
```

Edit Taxonomy Item [PXRM TAXONOMY EDIT]

Use this option to edit Taxonomy Item definitions.

```
Select PCE Reminder Maintenance Menu Option: TE Edit Taxonomy Item
Select PCE Taxonomy Item: ?
Answer with PCE TAXONOMY NAME
Do you want the entire PCE TAXONOMY List? Y (Yes)
Choose from:
   LOCAL 660 1
   TTEST
              TB risk codes
Select PCE Taxonomy Item: LOCAL 660 1
General Taxonomy Data
NAME: LOCAL 660 1// ?
     Enter a name from 3-30 characters, not numeric or starting with
     punctuation
NAME: LOCAL 660 1// ??
     This is the name for a taxonomy, or classification of coded values.
     name should indicate what the group of values defined in the Taxonomy
     entry define. Taxonomy entries distributed with the package have been
     defined for use with the PCE Reminder/Maintenance Item file for use by
     the Health Summary Clinical Reminder and Health Maintenance Components.
NAME: LOCAL 660 1// <Enter>
BRIEF DESCRIPTION: ??
     This is a brief description of what the taxonomy represents. This may be
     used to furthur define the intention of use of this taxonomy.
BRIEF DESCRIPTION: <Enter>
INACTIVE FLAG: ??
     Enter "1" to inactivate the taxonomy. This flag is set to ACTIVE in
     the distribution. As part of the installation, each site should review
     the taxonomy definitions and inactivate those that do not meet the
     site's needs. If desired, a site can copy a distributed taxonomy,
     using PXRM Taxomony Copy, to a local version and edit it to meet the
     site's needs. Taxonomy items that have been set to INACTIVE will be activated by subsequent PCE updates.
     Choose from:
                INACTIVE
       1
INACTIVE FLAG: <Enter>
ICDO Range of Coded Values
Select ICD0 LOW CODED VALUE: ?
Answer with ICDO RANGE OF CODED VALUES ICDO LOW CODED VALUE
     You may enter a new ICDO RANGE OF CODED VALUES, if you wish
     Answer must be 3-7 characters in length.
Select ICD0 LOW CODED VALUE: <Enter>
ICD9 Range of Coded Values
Select ICD9 LOW CODED VALUE: 003.0// ?
Answer with ICD9 RANGE OF CODED VALUES ICD9 LOW CODED VALUE:
    You may enter a new ICD9 RANGE OF CODED VALUES, if you wish
     Answer must be 3-7 characters in length.
```

Edit Taxonomy Item, cont'd

Select ICD9 LOW CODED VALUE: 003.0// **<Enter>** ICD9 LOW CODED VALUE: 003.0// <Enter> ICD9 HIGH CODED VALUE: 004.0// <Enter> Select ICD9 LOW CODED VALUE: <Enter>

CPT Range of Coded Values

Select CPT LOW CODED VALUE: <Enter>

Select PCE Taxonomy Item:

Copy Taxonomy Item [PXRM TAXONOMY COPY

Use this option to copy an existing taxonomy definition into a new entry in the Taxonomy file (#811.2). Once the taxonomy has been copied, you have the option of editing it.

Activate/Inactivate Taxonomies [PXRM (IN)/ ACTIVATE TAXONOMIES

This option allows you to activate/inactivate taxonomies.

Reminder Exchange [PXRM EXCHANGE]

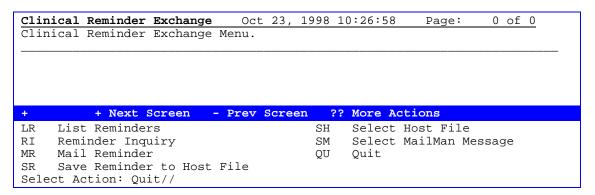
This option provides a mechanism for exchanging reminder definitions either through MailMan messages or host files. It can be used to exchange reminder definitions between sites or between accounts at a site.

```
List Reminder Definitions
RΙ
       Inquire about Reminder Item
RE
       Add/Edit Reminder Item
RC
       Copy Reminder Item
       Activate/Inactivate Reminders
RA
RT
       List Reminder Types Logic
       Reminder Reports ..
RΡ
       List Taxonomy Definitions
TT.
ΤI
       Inquire about Taxonomy Item
TE
       Edit Taxonomy Item
TC
       Copy Taxonomy Item
       Activate/Inactivate Taxonomies
TΑ
RX
       Reminder Exchange
```

Packed Reminder Definition

A reminder definition consists of a number of different components that may include targets, health factors, taxonomies, and computed findings. In order to transport a complete reminder definition, these must all be included. Therefore the RX option provides the functionality to create what we call a "packed reminder definition" for transport. A packed reminder definition contains all the components needed to create a complete reminder definition. It is possible that a site may already have a component with the same name. The installation procedure provides several mechanisms to help the installer, so that a component will not be inadvertently overwritten.

1. When you choose the reminder exchange option, the following screen appears:



The actions in the first column are for creating and exchanging packed reminder definitions and the actions in the second column are for unpacking and installing packed reminder definitions. A detailed explanation of each action follows. The actions LR and RI are useful for selecting a reminder that you want to exchange.

LR List Reminders

This creates a list of all the reminders that are defined at your site.

```
LR List Reminders SH Select Host File
RI Reminder Inquiry SM Select MailMan Message
MR Mail Reminder QU Quit
SR Save Reminder to Host File
Select Action:Quit// LR List Reminders
List active reminders only? Y//<Enter> ES
```

Clinical Reminder Exchange Oct 25, 19	998 08:46:45 Page: 1 of 6			
Clinical Reminder Exchange Menu.				
Dania dan Mana	Desire to Manya			
Reminder Name	Print Name			
VA-BREAST EXAM	Breast Exam			
VA-*PROBLEM DRINKING SCREEN	Problem Drinking Screen			
VA-BLOOD PRESSURE CHECK	Blood Pressure Check			
VA-*BREAST CANCER SCREEN	Breast Cancer Screen			
VA-*HYPERTENSION SCREEN	Hypertension Detection			
VA-*COLORECTAL CANCER SCREEN (FOBT)	Fecal Occult Blood Test			
VA-*CHOLESTEROL SCREEN (F)	Cholesterol Screen (Female)			
VA-*INFLUENZA IMMUNIZATION Influenza Immunization				
VA-*WEIGHT AND NUTRITION SCREEN	Weight and Nutrition Screen			
VA-*PNEUMOCOCCAL VACCINE	Pneumovax			
+ + Next Screen - Prev Screen	?? More Actions			
LR List Reminders	SH Select Host File			
RI Reminder Inquiry	SM Select MailMan Message			
MR Mail Reminder	QU Quit			
SR Save Reminder to Host File				
Select Action:Next Screen// <enter></enter>				

You can scroll through this list using the standard List Manager actions, Next Screen or +, Previous Screen or -. If you choose to see both active and inactive reminders, this display contains a column labeled "Inactive," which contains an "X" when a reminder is inactive.

Clinical Reminder Exchange Jan	n 21, 1999 0	9:42:22	Page:	1 of	7
Clinical Reminder Exchange Menu.					
Reminder Name	Print Na	me		Inact	<u>ive</u>
BREAST EXAM	Breast E				
CFTEST	Nutrition	n/Obesit	y Education		
COLONOSCOPY	Colonosco	opy			
CPTTEST	Breast Ca	ancer Sc	reen		
DEV NUTRITION/OBESITY EDUCATION	DEV Nutr	ition/Ob	esity Educat:	ion	X
DGPTTEST	Influenz	a Vaccin	.e		
DIABETES FOOT EXAM					
DIABETIC EYE EXAM	Diabetic	Eye Exa	m		
DIABETIC FOOT EXAM					
+ + Next Screen - Prev	Screen ??	More Ac	tions		
LR List Reminders	SH	Select	Host File		
RI Reminder Inquiry	SM	Select	MailMan Messa	age	
MR Mail Reminder	QU	Quit			
SR Save Reminder to Host File					
Select Action:Next Screen//					

When you want the details of a particular reminder definition, use the RI action.

RI Reminder Inquiry

This provides a detailed listing of the contents of a particular reminder.

```
List Reminders
                                        SH
                                             Select Host File
RΙ
     Reminder Inquiry
                                        SM
                                             Select MailMan Message
MR
    Mail Reminder
                                        OU
                                             Quit.
   Save Reminder to Host File
Select Action: Next Screen// RI
                                 Reminder Inquiry
Select Reminder Definition: VA-BLOOD PRESSURE CHECK
DEVICE: ANYWHERE
                    RIGHT MARGIN: 80//
```

```
PCE REMINDER ITEM INQUIRY
                                            Oct 25,1998 08:54
                                                                  PAGE 1
         NUMBER: 3
VA-BLOOD PRESSURE CHECK
Reminder Type:
                             MEASUREMENT
Print Name:
                              Blood Pressure Check
Related VA-* Reminder:
                              VA-*HYPERTENSION SCREEN
Reminder Description:
  BP due yearly for patients with no DX of hypertension, any age. BP due
  at all visits for patients with DX of hypertension or cardiovascular
  disease, any age.
  The VA-Blood Pressure Check reminder is based on baseline guidelines
  defined by the Ambulatory Care Expert Panel and depends on your site
  entering Blood Pressure measurement values into the "Vital
  Measurement"
```

Once a reminder has been selected for exchange, a packed reminder definition can be created either as a MailMan message or as a host file. The MailMan message can be sent to a list of addresses just as with any MailMan message. A host file can be exchanged via ftp, a floppy disk, or any other way that files can be moved.

MR Mail Reminder

```
LR List Reminders SH Select Host File
RI Reminder Inquiry SM Select MailMan Message
MR Mail Reminder QU Quit
SR Save Reminder to Host File
Select Action:Next Screen// MR Mail Reminder
Select Reminder Definition to mail: VA-BLOOD PRESSURE CHECK
Enter a description of the reminder you are sending.
```

At this point you will be put into your selected editor to type in a description of the reminder you are packing up. It should be a brief description of the reminder that the recipient of the packed reminder can use in determining if the reminder is one they are interested in installing on their system.

After you have finished the description you will be given information about the total number of lines in the packed reminder definition and the local message number. You will then be prompted for a list of recipients.

```
Total lines in packed reminder definition = 94
Local message number 7780
Send mail to:
```

SR Save Reminder to Host File

When saving the packed reminder definition to a host file, you are prompted for a path.

Examples of valid paths:

```
DOS c:\scratch
UNIX /home/scratch/
VMS USER$:[SCRATCH]
```

The default path is your current directory.

```
LR
     List Reminders
                                             Select Host File
                                        SH
RΙ
     Reminder Inquiry
                                        SM
                                             Select MailMan Message
   Mail Reminder
MR
                                        QU
                                             Quit
   Save Reminder to Host File
Select Action: Next Screen// SR Save Reminder to Host File
Select Reminder Definition to save: VA-BLOOD PRESSURE CHECK
Enter a path: DSA8:[MUMPS.DEVMGR]// <Enter>
```

After you have entered a path, you are prompted for a file name. You should use a name that will help you remember what is in the host file.

```
Enter a file name: BPCHECK
Will save reminder to host file DSA8:[MUMPS.DEVMGR]BPCHECK.PRD?: Y//
```

If you don't enter an extension with the name, the extension PRD (for Packed Reminder Definition) is automatically used. Unless there is a compelling reason not to, you should use the default extension. When selecting for host files to unpack, files with the extension PRD will be listed.

After you have received a MailMan message or a host file containing a packed reminder definition, you can use the SH or SM options to select a host file or a MailMan message for unpacking.

SH Select Host File

```
LR
     List Reminders
                                              Select Host File
                                         SH
     Reminder Inquiry
RΤ
                                         SM
                                              Select MailMan Message
     Mail Reminder
                                              Quit
                                         QU
SR
     Save Reminder to Host File
Select Action:Quit// SH Select Host File
Enter a path: DSA8:[MUMPS.DEVMGR]// <Enter>
The following PRD files were found in DSA8:[MUMPS.DEVMGR]
  BPCHECK.PRD;1
  HYPER.PRD;1
Enter a file name: BPCHECK
```

If the host files were named using the default extension, type in the file name. The host file will be opened and you will see a screen similar to this:

```
Process Host File Oct 25, 1998 09:58:14 Page: 1 of 1
DSA8:[MUMPS.DEVMGR]BPCHECK.PRD
```

Reminder Summary

```
Packed reminder definition for: Blood Pressure Check
From: TEDD,DR at SALT LAKE CITY
Date: 10/6/1998

This is an example of a packed reminder definition saved in a host file.

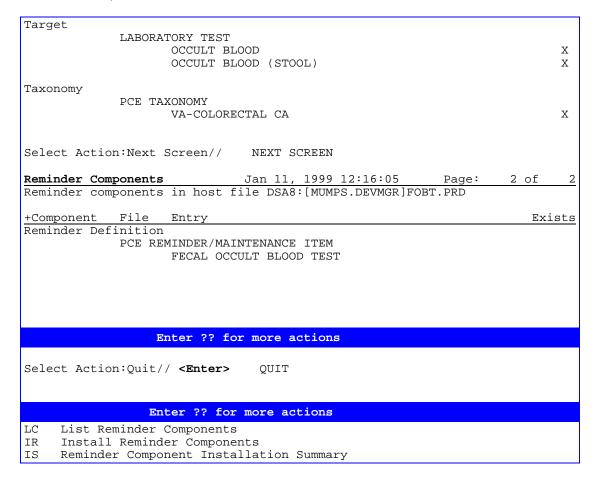
Enter ?? for more actions

LC List Reminder Components
IR Install Reminder
IS Reminder Installation Summary
Select Item(s): Quit//
```

The source and description of the packed reminder definition will be displayed along with the options, *List Reminder Components*, *Install Reminder*, and *Reminder Installation Summary*, described on the following pages.

LC List Reminder Components

This gives a list of all the reminder components in the packed reminder definition. These include the reminder definition and its various components such as targets, health factors, and taxonomies.



The column labeled "Component" tells you what kind of component it is. In this example, we have a Reminder Definition and a Taxonomy. The column labeled "File" gives the name of the file where the component is found. The column labeled "Entry" gives the name of the entry in the file. In this example, one of the components is a Taxonomy, the file is PCE TAXONOMY, and there is one taxonomy: FECAL OCCULT BLOOD TEST

The column labeled "Exists" will have an X if a component of the same type and same name already exists on your system. This alerts you to the fact that you should be careful when installing this component because you could overwrite your existing component.

IR Install Reminder Components

This lets you install any or all of the components in the packed reminder definition. If the component already exists on your system, you will be presented with the choices of copying the component to a new name, (in this case you will be prompted for the new name), overwriting the existing component (the existing component will be replaced by the new one), or skipping this component. If this component does not already exist, you will be given a choice of installing it or copying it to a new name.

```
----- PROCESSING TARGETS ------
LABORATORY TEST entry OCCULT BLOOD already EXISTS, what do you want to do?
(Currently, cannot install laboratory tests)
LABORATORY TEST entry OCCULT BLOOD (STOOL) already EXISTS, what do you want
(Currently, cannot install laboratory tests)
  ----- PROCESSING TAXONOMIES ---------
PCE TAXONOMY entry VA-COLORECTAL CA already EXISTS, what do you want to do?
    Select one of the following:
                  Create a new entry by copying to a new name
                  Install or Overwrite the current entry
         Т
                  Quit the install
                  Skip, do not install this entry
Enter response: S// <Enter>
    ----- PROCESSING REMINDER DEFINITION -------
PCE REMINDER/MAINTENANCE ITEM entry FECAL OCCULT BLOOD TEST is NEW, what do
you want to do?
    Select one of the following:
                  Create a new entry by copying to a new name
                  Install or Overwrite the current entry
         Ι
         Q
                  Quit the install
                  Skip, do not install this entry
Enter response: I// <Enter>
```

The various components will be installed first, with the reminder definition coming last. This allows all the pointers to be resolved so the reminder will work. As the reminder definition is being installed, the exchange utility checks to make sure that each component used in the reminder definition actually exists on your system. If it doesn't, then you are given the opportunity to make a change so the reminder will work. In the above example, we see that Laboratory Tests currently cannot be installed.

When the reminder definition installation comes across a missing lab test it looks like this:

```
LABORATORY TEST reminder component MICRO ALBUMIN does not exist

Select one of the following:

Delete from the reminder definition
PReplace (in the reminder definition) with an existing entry
QQuit the install
R Restart

Enter response:
```

If you select D, the missing component is deleted from the reminder definition. If you select P, you are prompted for the name of a component to use in place of the missing one. If the missing component was included in the packed reminder definition, you can choose R, which will restart the installation process allowing you to install the missing component and then the reminder definition. If the installation is really messed-up then you can quit the entire install by typing Q.

NOTE: If a component already exists on your system, you won't see anything about it during the installation of the reminder definition. It will automatically be included in the reminder definition. For example, if you have a lab test already on your system that has the same name as one in the packed reminder definition, the reminder definition will automatically use it. You will see a message like:

```
LABORATORY TEST entry TOXOPLASMA already EXISTS, what do you want to do? (Currently, cannot install laboratory tests)
```

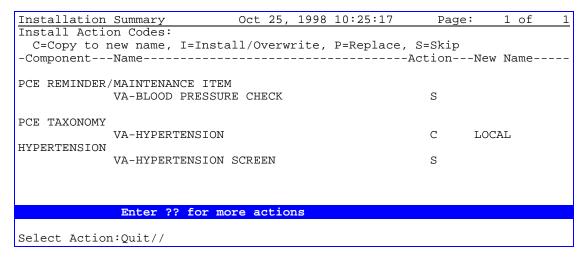
If the component does not exist, the message will be:

```
LABORATORY TEST entry TOXOPLASMA, IgG (Torch) is NEW, what do you want to do? (Currently, cannot install laboratory tests)
```

If the existing lab test is different than the one in the packed definition, even though they have the same name, the reminder might not operate as expected. It is always a good idea to use the List Components action so that you know what is present and what to do about it before you actually do the installation.

After you have completed the installation, you may request an installation summary.

```
LC List Reminder Components
IR Install Reminder
IS Reminder Installation Summary
Select Item(s): Quit// IS Reminder Installation Summary
```



This shows you what action was taken with each component. If a component was copied to a new name, the new name will be listed.

If you want a permanent record of what was done, you can use the List Manager "hidden action" PS to print the screen. You can see all the hidden actions by typing double question marks.

SM Select MailMan Message

This option is used to select MailMan messages containing packed reminder definitions. When you select this option, you will be presented with a list of all your MailMan messages with a subject containing the term "Packed reminder def. for." You will also be shown the sender and the date and time the packed reminder definition was created.

```
T.R
     List Reminders
                                        SH
                                             Select Host File
                                             Select MailMan Message
     Reminder Inquiry
RΤ
                                        SM
     Mail Reminder
     Save Reminder to Host File
Select Action:Quit// SM Select MailMan Message
       Packed reminder def. for CG-PRESSURE ULCER
         <DOE,JANE A@TEST.FARGO.VA.GOV>1 Dec 1998 13:32 CST
       Packed reminder def. for CHEST XRAY
         <DOE,JOHN D MD@WEST-PALM.VA.GOV>5 Dec 1998 10:20 EST
       Packed reminder def. for CHR HEPATITIS/CIRRHOSIS - U/S
         <DOE,JOHN D MD@WEST-PALM.VA.GOV>5 Dec 1998 15:23 EST
        Packed reminder def. for DIABETES - URINE PROTEIN
         <DOE.JOHN D MD@WEST-PALM.VA.GOV>5 Dec 1998 11:15 EST
         Packed reminder def. for DIABETES - URINE MICROALBUMIN
         <DOE,JOHN D MD@WEST-PALM.VA.GOV>5 Dec 1998 11:16 EST
Press <RETURN> to see more, '^' to exit this list, OR
CHOOSE 1-5:
```

After you have chosen a message, the screen and options will be identical to the one after a host file has been selected.

Errors

If something goes wrong during the installation and a component cannot be installed, the error message returned by FileMan will be displayed. Some examples of these error messages and suggested solutions follow.

Error Example 1: Category problem

```
HEALTH FACTORS entry LIFE EXPECTANCY < 5 YEARS is NEW, what do you
  want to do?
     Select one of the following:
                    Create a new entry by copying to a new name
                    Install or Overwrite the current entry
                    Quit the install
                    Skip, do not install this entry
Enter response: I// I Install or Overwrite the current entry
The update failed, UPDATE^DIE returned the following error message:
MSG("DIERR")=1^1
MSG("DIERR","1")=701
MSG("DIERR","1","PARAM","0")=3
MSG("DIERR","1","PARAM","3")=REMINDER FACTORS
MSG("DIERR","1","PARAM","FIELD")=.03
MSG("DIERR","1","PARAM","FILE")=9999999.64
MSG("DIERR","1","TEXT","1")=The value 'REMINDER FACTORS' for field CATEGORY
in file HEALTH FACTORS is not valid.
MSG("DIERR","E","701","1")=
HEALTH FACTORS entry LIFE EXPECTANCY < 5 YEARS did not get installed!
Examine the above error message for the reason.
```

To understand this error, you have to remember that there are two types of health factors, *categories* and *factors*. All factors must belong to a category. The health factor "LIFE EXPECTANCY < 5 YEARS" could not be installed because there was a problem with its category. Now if you look at the above error text, it makes more sense.

Generally the problem can be one of two things:

- the category does not exist.
- duplicate entries for the category so that FileMan cannot determine which one to use.

Error Example 2: Health factor no longer exists

It is also possible to get errors when creating a packed reminder definition. For example:

```
GETS^DIQ failed for the reminder definition, it returned the following error
message:
MSG("DIERR")=1^1
MSG("DIERR","1")=330
MSG("DIERR","1","PARAM","0")=2
MSG("DIERR","1","PARAM","1")=71
MSG("DIERR", "1", "PARAM", "2") = pointer to File #9999999.64
MSG("DIERR","1","TEXT","1")=The value '71' is not a valid pointer to File
#9999.
MSG("DIERR", "E", "330", "1") =
%DSM-E-UNDEF, undefined variable ^AUTTHF(71,0)
-DSM-I-ECODE, MUMPS error code: M7
%DSM-I-ATLABEL, GETHFCAT+6^PXRMEXPR:1
                                         . S CAT=$P(^AUTTHF(IND,0),U,3)
GETS^DIQ failed for file 9999999.64, it returned the following error
message:
MSG("DIERR")=1^1
MSG("DIERR","1")=601
MSG("DIERR","1","TEXT","1")=The entry does not exist.
MSG("DIERR", "E", "601", "1") =
GETS^DIQ failed for file 9999999.64, it returned the following error
message:
MSG("DIERR")=1^1
MSG("DIERR","1")=601
MSG("DIERR","1","TEXT","1")=The entry does not exist.
MSG("DIERR", "E", "601", "1") =
```

File 9999999.64 is the Health Factors file. These error messages tell us that the health factor no longer exists. For this to happen, the health factor had to exist when the reminder definition was created, then be deleted some time after. This reminder definition can be repaired by deleting the non-existent health factor from the reminder definition. If the health factor should really be included in the reminder definition, it should be created and then added back into the reminder definition. It is important that the bad health factor is removed first.

Example error 3: Discrepancies between sites exchanging reminders

In the future, the addition of new capabilities to the Clinical Reminders may require addition of new fields to the reminder definition and possibly to the reminder components. These will be sent out to sites in patches. If a site installs a patch that adds a new field and then sends a packed reminder definition to a site that has not installed the patch, the receiving site will not be able to install the component of the packed reminder definition that contains the new field. After the receiving site installs the patch, the installation should work without a problem.

B. Implementing Clinical Reminders

1. Gather copies of the worksheets

- Clinical Reminders at a Glance
- Clinical Reminder Definition Worksheet
- PCE Clinical Integration Worksheet

2. Review the reminders distributed with PCE

- Review distributed reminder names and see how they relate to each other.
- Number of Reminder Items distributed:
 - ▶ NCHP VA-* prefixed reminder items
 - ▶ Amb Care EP's VA- prefixed reminder items

3. Become familiar with the distributed taxonomies.

- Use Appendix B to review distributed taxonomies.
- Number of taxonomies distributed: 30

4. Identify preventive maintenance guidelines to be used for start-up.

- *Identify clinician(s) who want their clinic to be the start-up clinic for the reminders.* Ideally, this should be a clinician who uses encounter forms and health summaries and wants to be actively involved with the clinic's encounter form and reminder definition process.
- *Identify the coordinator who defines the clinic's encounter form(s)*. Inform the coordinator about the reminder definition process, and that it could impact the clinicians' encounter form definition. Get a copy of the current encounter form definition used by the clinic.
- Work with the clinician to identify the category of reminder(s) from the distributed list in Appendix A that the clinician would like to start with. The VA-* and VA- reminders that are similar are listed next to each other in Appendix A. This gives an overview of the reminders by guideline category and how they relate to each other. Each row contains the reminders that address the same preventive maintenance guideline, each with a little different definition. The last column is reserved for the coordinator for tracking purposes to indicate the local reminder that is being used to satisfy the preventive maintenance guideline.
- Identify the appropriate coordinators for resolving the overlap between package management of PCE table, clinical reminder, health summary, and encounter form definitions.

5. Identify how clinicians would like to see preventive maintenance guidelines implemented in their clinic

• Show each clinician the "VA-*" (NCHP) and "VA-" (Amb Care EP) prefixed detailed definitions of reminders that relate to the category of guidelines the clinician is interested in. For each definition review the following:

Print Name

What text does the clinician want to see on the health summary to identify this reminder?

Age Findings

What age range(s) (if any) should be in effect for this reminder? How frequently should the reminder be due? Keep in mind that taxonomy, and health factor findings can alter the age range and frequency criteria.

Target Result Findings Items

Determine if the items are appropriate for your site. Check the item's content based on your local definitions from the target result findings file. If the Target Result Finding file is one of those in the left column below, answer the question in the right column.

Items	Questions
Lab Test (Chemistry &	What are the laboratory test names that should be looked for to
Hematology only)	satisfy the reminder?
Radiology Procedure	What are the radiology procedure names that should be looked
	for to satisfy the reminder?
Measurement	What are the measurements that should be looked for to satisfy
	the reminder?
Education	What are the education topics that should be looked for to
	satisfy the reminder?
Immunization	What are the immunizations that should be looked for to satisfy
	the reminder?
Exam	What are the exams that should be looked for to satisfy the
	reminder?
Skin Test	What are the skin tests that should be looked for to satisfy the
	reminder?
Procedure	What are the CPT codes and ICD Operation/Procedure codes
	that should be looked for to satisfy the reminder?

Taxonomy Items

Get a detailed list of the taxonomy definitions currently defined for the reminder. (See Appendix B for a list of distributed taxonomy definitions.) For each taxonomy, review the list with the clinician and decide if it is appropriate. If not, develop a new list and create a taxonomy reflecting the new list. Keep track of these coded values for integration with the Encounter form. (The clinician may already be collecting preferred codes on the encounter form. The clinic's encounter form may be useful to have available during this process.)

- If the patient is found to have a match with the taxonomy:
 - ▶ Decide if the age range and/or reminder frequency should be altered and if it is what the rank should be.
 - Decide if the taxonomy can be used to satisfy the reminder.
 - ▶ Decide what (if any) "found" text message should be displayed on the Clinical Reminder Maintenance component. (The date and what was found will be displayed in the Clinical Reminder Maintenance component.)
 - Decide if the taxonomy should control whether or not the reminder is applicable.
- If the patient is not found to have to have a match with the taxonomy:
 - ▶ Decide what (if any) "not-found" text message should be displayed on the Clinical Reminder Maintenance component.
- Is there a generic "found" text or "not-found" text that the clinician would like to see if any of the taxonomies were matched, or if none of the taxonomies were matched?

Health Factor Findings Items

- What are the health factors that should be looked for to satisfy the reminder?
- If the patient has the health factor information on file:
 - ▶ Decide if the age range and/or reminder frequency should be altered.
 - ▶ Replace the taxonomy with the health factor
 - ▶ Decide what (if any) "found" text message should be displayed on the Clinical Reminder Maintenance component. (The date and what was found will be displayed in the Clinical Reminder Maintenance component.)
 - ▶ Replace the taxonomy with the health factor.
- If the patient is not found to have the health factor information on file:
 - ▶ Decide what (if any) "not found" text message should be displayed on the Clinical Reminder Maintenance component.
- Is there a generic "found" text or "not found" text that the clinician would like to see if any of the health factors were found, or if none of the health factors were found?

If answers to any of the questions above are different from the distributed definition, than a local reminder definition must be created for the preventive maintenance guideline.

6. Review and edit Reminder/Maintenance file entries, as needed.

For each specified reminder definition, the PCE files may require new entries to support the reminder. For PCE files, review the following files and answer the questions in the right column.

File	Questions	
Education Topic	Are the education topics already defined in the Education Topics file?	
Immunization	Are the immunizations already defined in the Immunization file?	
Exam	Are the exams already defined in the Exam file?	
Skin Test	Are the skin tests already defined in the Skin Test file?	
Taxonomy	Is there a taxonomy defined that addresses the ICD Diagnosis, ICD	
	Operation/Procedure and CPT codes that should be looked for to	
	satisfy the reminder.	
	Keep in mind that multiple taxonomies may be defined, each with a	
	different emphasis on grouping.	

7. Resolve integration issues between the clinic's encounter form and reminder definition

- For each reminder to be used, determine what items identified as part of the reminder's criteria should be captured off the encounter form.
 - ▶ Vital types for measurement reminders
 - ▶ Education Topics for education reminders
 - ▶ Immunizations for immunization reminders
 - ▶ Exams for exam reminders
 - ▶ Skin Tests for skin test reminders
 - ▶ Taxonomies with CPT codes and ICD Operation/Procedure codes for procedure reminders
 - ▶ Taxonomies with ICD codes for diagnosis tracking/reminder alteration within the reminder definition
 - ▶ Health Factors for health factor tracking/reminder alteration within the reminder definition
- The Clinical Coordinator responsible for the clinics' encounter form(s) definitions needs to make the appropriate changes to begin collecting any new data that is needed to meet the preventive maintenance guidelines.

8. Define a PCE Reminder/Maintenance Item for each unique reminder

- Use the Clinical Reminder Maintenance Menu option, *Copy reminder Item*, to copy and edit an existing reminder. You may also create a new reminder from scratch, but it is usually easier to start with an existing reminder.
- **NOTE**: The technical descriptions may be useful for summarizing what your goals are for the reminder and for sharing with other sites.

9. Test the new reminder

There are two ways to test a reminder:

- 1. Add the reminder to a test Health Summary.
 Using a test health summary shows how the reminder looks from a user's perspective.
- 2. Use the *Reminder Test* option, as described in Appendix A-7. The *Reminder Test* option can be a useful tool to reminder developers for debugging reminders that don't work as expected.

To test a reminder using Health Summary:

1. Add the Clinical Reminder Maintenance, Clinical Reminders Summary, and Clinical Reminder components to the reminder health summary type. Select the reminder item(s) to be tested in the selection item's prompt from Clinical Reminder Maintenance and Clinical Reminders components.

Health Summary reminder components:

CLINICAL	This component evaluates patient findings to
REMINDERS DUE	determine if the reminder is "DUE NOW."
CLINICAL This component provides the next due date	
REMINDERS	last done date.
SUMMARY	
CLINICAL	This component evaluates patient findings and
REMINDER	reports the findings or lack of findings used to
MAINTENANCE	determine whether or not the reminder is due.

NOTE: If you can't select the Clinical Reminder Maintenance or Clinical Reminders components for the Health Summary, the components must be enabled for use, and the *Rebuild Ad Hoc Health Summary Type* option must be run.

- 2. Use the Print Health Summary Menu *Patient Health Summary* option to begin testing the component for individual patients. Find or create test patients with data in **V***ISTA* that matches the reminder definitions, as well as some that won't have data matches. Assess the reminder results:
 - Are the age range and frequency evaluation working?
 - Are the target findings found or not found as expected?
 - Are the taxonomy findings found or not found as expected?
 - Are the health factors found or not found as expected?
 - If match and no-match are defined, are they being displayed?
 - Are alterations of the age and frequency criteria working as expected based on taxonomy or health factor findings?
- **3.** Use the Print Health Summary Menu *Hospital Location Health Summary* option to print the reminders for a clinic, based on a recently passed date range or next week's date range. Did the health summary print run to completion without any errors?
- **4.** Contact IRMS if you encounter errors. The IRMS person may enter a NOIS for correction of the error.
- **5.** Do not add reminders that are causing errors to the clinic's health summary. Make the reminders inactive until the problem is resolved.
- **6.** Once the reminder is working as expected, show the clinician the reminder definitions, samples of the health summary components results and possibly the encounter form. Gather feedback.
- **7.** If necessary, make modification to the reminder definition, taxonomies, and encounter forms. After the modifications have been made, resume the testing.
- **8.** Identify the Health Summary Coordinator for the clinic. Provide the coordinator with the list of selection item reminders that the clinician has selected for their clinic.
- **9.** The Health Summary Coordinator must add the Clinical Reminders and/or Clinical Reminder Maintenance components to the clinic's health summary type, adding the selection items for the Reminder/Maintenance Items.

C. Health Summary Example

This example shows *Clinical Reminders Due*, *Clinical Reminders Summary*, and *Clinical Reminder Maintenance* components.

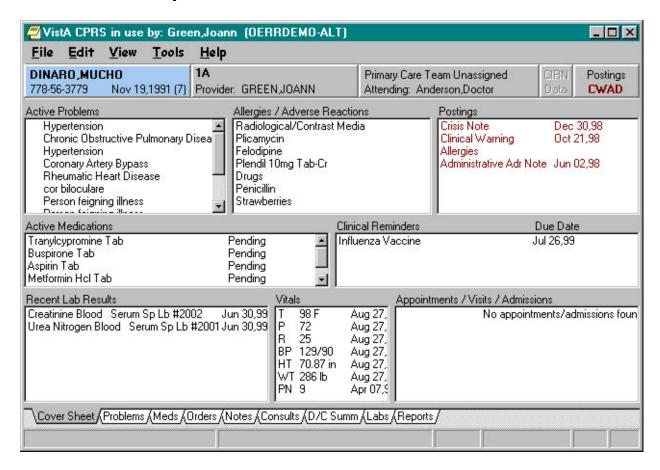
The clinical maintenance component provides:

- Details about what was found from searching the VISTA clinical data
- Text related to the findings found or not found (as defined in the reminder)
- Final frequency and age range used for the reminder

```
07/27/98 07:56
234-77-6641
                                                         DOB: 04/01/1944
OUTPATIENT, EDNA
    -----During Carle Reminders Due -----
The following disease screening, immunization and patient education
recommendations are offered as guidelines to assist in your practice.
These are only recommendations, not practice standards. The
appropriate utilization of these for your individual patient must be
based on clinical judgment and the patient's current status.
                                --NEXT-- --LAST--
                                DUE NOW 02/21/97
DUE NOW 10/01/95
Influenza Vaccine
Diabetic Foot Exam
 The following disease screening, immunization and patient education
recommendations are offered as guidelines to assist in your practice.
These are only recommendations, not practice standards. The
appropriate utilization of these for your individual patient must be
based on clinical judgment and the patient's current status.
                                --NEXT-- --LAST--
                                DUE NOW 10/01/95
DUE NOW 02/21/97
Diabetic Foot Exam
Influenza Vaccine
                                04/30/99 04/30/97
Mammogram
The following disease screening, immunization and patient education
recommendations are offered as guidelines to assist in your practice.
These are only recommendations, not practice standards. The
appropriate utilization of these for your individual patient must be
based on clinical judgment and the patient's current status.
                                --NEXT-- --LAST--
DUE NOW 10/01/95
Diabetic Foot Exam
    3/13/1997 Problem Diagnosis: 250.10-DIABETES W KETOACIDOSIS TYP II
      Prov. Narr. - Diabetic Acidosis
    9/18/1996 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
      Prov. Narr. - DIABETES W/ KETOACIDOSIS, TYPE I[IDDM][JUVENILE
    TYPE 1 . UNCONTROLLED
      Historical Encounter Location: University Hospital Clinic
    10/1/1995 (E) Examination: DIABETIC FOOT EXAM, COMPLETE
    Complete foot exam required annually for all diabetic patients.
    Final Frequency and Age Range used: 1 year for all ages.
Press <RET> to continue, ^ to exit, or select component:
```

```
07/27/98 07:56
   OUTPATIENT, EDNA 234-77-6641
                                                        DOB: 04/01/1944
   (continued)
Influenza Vaccine
                                DUE NOW 02/21/97
    3/13/1997 Problem Diagnosis: 250.10-DIABETES W KETOACIDOSIS TYP II
      Prov. Narr. - Diabetic Acidosis
    9/18/1996 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
      Prov. Narr. - DIABETES W/ KETOACIDOSIS, TYPE I[IDDM][JUVENILE
    TYPE], UNCONTROLLED
    2/21/1997 Encounter Procedure: 90724-INFLUENZA IMMUNIZATION
    2/21/1997 Immunization: INFLUENZA
    Flu shot due yearly in patients any age that have a high risk for flu
    or pneumonia.
    Final Frequency and Age Range used: 1 year for all ages.
                                04/30/99 04/30/97
Mammogram
    4/29/1996 Health Factor: ACTIVATE BREAST CANCER SCREEN
    4/30/1997 Encounter Procedure: 76092-MAMMOGRAM, SCREENING
    Women ages 50-69 should receive a mammogram every two years.
    Health Factor comments: Activate health factor comments
    Final Frequency and Age Range used: 2 years for ages 50 to 69.
                                04/30/99 04/30/97
Demo Mammogram
    4/29/1996 Health Factor: ACTIVATE BREAST CANCER SCREEN
    4/30/1997 Encounter Procedure: 76092-MAMMOGRAM, SCREENING
    Women ages 50-69 should receive a mammogram every two years.
    Health Factor comments: Activate health factor comments
    Final Frequency and Age Range used: 2 years for ages 50 to 69.
* END *
Press <RET> to continue, ^ to exit, or select component:
```

CPRS Example



D. Clinical Reminders Worksheets

1. Clinical Reminders at a Glance

This is a worksheet to help track a clinic's selected reminders. See instructions on the following page. Make copies of this page for each clinic. (** A/I = Active/Inactive)

NCHP Reminder Guideline (VA-* Prefix)	Amb Care EP / Site Examples	Local Site Guideline
	Distributed (VA- Prefix)	A/I
A/I**	A/I	A/1
Breast Cancer Screen	Mammogram	
Cervical Cancer Screen	Pap Smear	
Cholesterol Screen (F)		
Cholesterol Screen (M)		
Colorectal Cancer Screen (FOBT)	Fecal Occult Blood Test	
Colorectal Cancer Screen (Sig.)	Flexisigmoidoscopy	
Fitness and Exercise Screen	Exercise Education	
Hypertension Screen	Blood Pressure Check	
Influenza Immunization	Influenza Vaccine	
Pneumococcal Vaccine	Pneumovax	
Problem Drinking Screen	Alcohol Abuse	
	Education	
Seat Belt and Accident Screen	Seat Belt Education	
Tetanus Diphtheria Immunization		
Tobacco Use Screen	Tobacco Education	
Weight and Nutrition Screen	Nutrition/Obesity	
	Education	
	Advanced Directives	
	Education	
	Breast Exam	
	Breast Self Exam	
	Education	
	Diabetic Eye Exam	
	Diabetic Foot Care Ed.	
	Diabetic Foot Exam	
	Digital Rectal (Prostate)	
	Exam	
	PPD	
	PSA	
	Weight	

Clinical Reminders at a Glance Worksheet Instructions

Use the table on the previous page as a worksheet to help track a clinic's selected reminders. Each row of this table represents variations of the same type of reminder.

- 1. Become familiar with the distributed reminder definitions found in Appendix A. The VA-* reminders, based on definitions by the National Center for Health Promotion (NCHP), represent a minimum set of reminders which sites must be able to report on yearly to comply with Congressional law.
- 2. The VA- reminders are site and Ambulatory Care Expert Panel examples of reminders. When a VA- reminder is in the column next to a VA-* reminder, the VA- reminder is an example of an alternative reminder that still addresses the NCHP guideline.
- 3. Use Appendix A as a worksheet for developing the local reminder definitions. This includes requirements for taxonomies, health factors, and target findings that are needed to meet your site's preventive maintenance guidelines.
- 4. Use the PCE Table Maintenance options to create any new education topics, exams, immunizations, skin tests, and health factors needed by the reminders.
- 5. Use the Taxonomy Copy and Edit options to create and modify site taxonomies, if the distributed taxonomies need modifications.
- 6. Use the Reminder Copy and Edit options to create and modify site reminders if the distributed reminders need modifications. Make sure that the NCHP Guideline field is filled in if the site reminder is replacing a VA-* version of a reminder.
- 7. Add the names of any local site reminders into table A-2.
- 8. Use table A-2 to identify the reminders that you will actually use, and enter an "A" in the boxes of the A/I column. This will summarize which reminders should be marked active.
- 9. Inactivate any reminders that will not be used by your site. As reminders are identified, you can summarize which reminders won't be used by entering "I" in the A/I boxes.
- 10. Test reminders by adding the reminders to a test health summary types' Clinical Maintenance or Clinical Reminder components, or reference the reminders in the *AD HOC Health Summary* option for the Clinical Maintenance or Clinical Reminder components. You can also test reminders by using the *Reminder Test* option (see Appendix A-7). Initially, you may want to focus only on the Clinical Maintenance component to ensure that the **VISTA** data is being evaluated appropriately.
- **NOTE**: If you're using reminders for performance measures, you may want to create your own table, listing the performance measure being met and the related reminder.

2. Clinical Reminder Definition Worksheet

Clinical Reminder Definition Worksheet	Page	1 0	f	6
Clinic Name/Clinician:				-
Reminder NAME (required): Enter the name of a clinical reminder/maintenance item.				
REMINDER TYPE (req): Check one of the following: Education Examination Immunization Laboratory Test (chemist Measurement Radiology Procedure Procedure Skin Test	try & ł	nemat	:ol	ogy)
PRINT NAME (opt):				
RELATED REMINDER GUIDELINE (opt): If this local reminder replaces an NCHP related reminder, ic NCHP reminder here. The VA-* prefixed reminders are NCHP reminders are NCHP reminders.			_ : r	elated
INACTIVE FLAG (opt): '1' FOR INACTIVE; or use the @ to read	ctivate	e a r	em	inder.
REMINDER DESCRIPTION (opt):				
This field contains a clinical description of the purpose of reminder/maintenance item.	f the d	clini	 .ca	<u> </u>
TECHNICAL DESCRIPTION (opt):				
				
The technical description is the place to document the reason reminder definition. It may also be useful for sites sharing definitions.			ıd	the
DO IN ADVANCE TIME FRAME (opt): Enter the time period to mark the reminder due in advance (e	e.g.,7I	O,1M,	бМ	I,1Y).
SEX SPECIFIC (opt): Circle one or leave blank to apply to be 'F' FOR FEMALE 'M' FOR MALE	oth.			
IGNORE ON N/A (opt): This is used to prevent display of Non-Applicable messages of Reminders component. The allowed codes are A for age and S to one code can be selected.				

Clinical Reminder Definition V	Worksheet	Page 2 of 6
Reminder Name:		
====== TARGET GROU	PS (optional- multiple	·) ==========
BASELINE AGE FINDINGS (opt): This may frequencies based on maximum and mix frequency age range sets. These frequency the reminder. The baseline frequency finding, health factor find	nimum age ranges. The quency age range sets uency age range set ca	se are called are the "Baseline" n be altered by a
REMINDER FREQUENCY (opt): MINIMUM AGE (opt): MAXIMUM AGE (opt): AGE MATCH TEXT (opt): AGE NO MATCH TEXT (opt):		
REMINDER FREQUENCY (opt): MINIMUM AGE (opt): MAXIMUM AGE (opt): AGE MATCH TEXT (opt): AGE NO MATCH TEXT (opt):		
REMINDER FREQUENCY (opt): MINIMUM AGE (opt): MAXIMUM AGE (opt): AGE MATCH TEXT (opt): AGE NO MATCH TEXT (opt):		
REMINDER FREQUENCY (opt): MINIMUM AGE (opt): MAXIMUM AGE (opt): AGE MATCH TEXT (opt): AGE NO MATCH TEXT (opt):		

Clinical R	eminder I	Definition Worksheet	Page 3 of 6
Reminder Nam	ne:		
Note: The result f	Only speci	fy one result findings fi	onal-1 entry) =========== le in the reminder definition. e file for the Reminder Type reminder types except
Reminder Type Education Examination Immunization Lab Test Measuremer Radiology Procedure Skin Test	on Lon	Check one of the foll Education T Exam Immunizatio Laboratory GMRV Vital Radiology P leave blank	opics n Test (chemistry & hematology) Type rocedures
TARGET RESUL	T DESCRIPT	ION (opt):	
This describ	 Des what an	d why particular target r	esult finding items need to be
selected for	this remi	nder.	
		ITEMs (opt): from the Target Result Fi	ndings File that should be used
to evaluate variable poi	patient fin inter definations for the	ndings for this reminder. ition. Use the PREFIX.? f	These entries are based on a or a list of the currently items available to select from
FILE	PREFIX	Description	Method to Define Items Not in the file
60	L	LABORATORY TEST (NOTE: Chem & Hem only)	See Lab Coordinator
71	R	RADIOLOGY TEST	See Radiology Coordinator
9999999.09		EDUCATION TOPIC	
9999999.14	I	IMMUNIZATION	PCE Table Maintenance
9999999.28	SK	SKIN TEST	PCE Table Maintenance
9999999.15	EX	EXAM	PCE Table Maintenance
120.51	VT	VITAL MEASUREMENT TYPE XT (opt):	See Gen Med Rec - Vitals package coordinator
TARGET RESUL	II FOUND IE.	AI (OPC):	
TARGET RESUL	T NOT FOUN	D TEXT (opt):	

Clinical Remir	nder Definition	Worksheet	Page 4 of 6
Reminder Name: _			
You will need to	fill out one of the eneral Found and No	nese sheets for each	le) ========= taxonomy used by the defined for all the
definition, and a match. Enter the Procedure, or CP	alter the reminder Taxonomy name, or T codes which need		hether the patient has a iagnosis, ICD Operation If no taxonomy
TAXONOMY I			 ,
	or identity stand	dard codes to build t	caxonomy(s).
	ICD Diagnosis cod	des:	
	ICD Operation/Pro	ocedures:	
	CPT procedures:		
	onomy can alter the	e reminder criteria (elds:	or give clinical
FOUND TEXT NOT FOUND ' RANK FREQU USE IN DAT	E (opt): REQUENCY (opt):		
= = = = = = = :	=======	= = = = = = = = :	
TAXON GENERAL FO	UND TEXT (opt):		
TAXON GENERAL NO	T FOUND TEXT (opt)	:	

Clinical Reminder Definition W	orksheet	Page 5 of 6
Reminder Name:		
======================================	ese sheets for each hea	lth factor used by
HEALTH FACTOR FINDINGS (opt): These are the health factors that she reminder. Each health factor is defined the factor category. A match on the item(s) found for a patient represent to alter the reminder criteria. Multitem(s) are based on the health factoritem belonged to. If 5 health factoritem belonged to unique health factoritem to the factoritem from 2 unique health factoritem to the factoritem factoritem form the factoritem factoritem form the factoritem factorite	ned in the Health Fact the most recent health ated in the reminder de ciple most recent health for category the health or finding items are de or categories, then only	or file with a factor finding finition may be used h factor finding factor findings fined in the y the two most
HEALTH FACTOR FINDINGS ITEM (c	opt):	
A match on a health factor can alter feedback based on the following fiel MINIMUM AGE (opt): MAXIMUM AGE (opt): REMINDER FREQUENCY (opt): FOUND TEXT (opt): NOT FOUND TEXT (opt): RANK FREQUENCY (opt): USE IN DATE DUE CALC (opt): USE IN APPLY LOGIC (opt): = = = = = = = = = = = = = = = = = = =		or give clinical

Clinical Reminder Definition N	Worksheet	Page 6 of 6
Reminder Name:		
======================================		
COMPUTED FINDINGS (opt): This multifindings criteria are more involved entry in the patient's clinical dat Body Mass Index (BMI) based on the	than just checking the a. An example might be t	existence of an
ROUTINE (opt): An example of a routine would be OB	ESE;PXRMOBES.	
A match on a computed finding can a feedback based on the following fie		ria or give clinical
MINIMUM AGE (opt): MAXIMUM AGE (opt): REMINDER FREQUENCY (opt): SHORT DESCRIPTION (opt): FOUND TEXT (opt): NOT FOUND TEXT (opt): RANK FREQUENCY (opt): USE IN DATE DUE CALC (opt): USE IN APPLY LOGIC (opt):		
====== APPLY LOG	IC (optional) =======	==========
APPLY LOGIC (opt): For reminders requiring APPLY LOGIC APPLY LOGIC field on taxonomies, he APPLY LOGIC can be entered here. F this field see Appendix A-7.	alth factors, and comput	ted findings the
====== END OF R	EMINDER DEFINITION =====	

3. PCE Clinical Integration Worksheet

Use this worksheet to coordinate the management of a clinic's reminder impact on Health Summary, PCE, and Encounter Forms. Successful integration depends on how well the clinical coordinators work with each other and the clinicians they represent.

Clinic Information:	
Clinic Name:	
Clinicians/Team:	
Clinic's Health Summary Types:	
v ••	
Encounter Form #:	
ID #:	
Coordinators:	
PCE Clinical Coordinator	
Health Summary Clinical Coordinator	
Preventive Maintenance Coordinator	
Encounter Form Clinical Coordinator	

Integration Checklist for management of:

Reminder/ Maintenance	PCE Table	Reminders	Health	Encounter
Item(s) selected:	Review/		Summary	Form
	Update	Define Test		Review/
	_	·	CM CR	Update

PCE Clinical Integration Worksheet—Page 2

Clinic Name:

Integration Checklist for management of:

PCE Table Review/	Reminders	Health Summary		Encounter Form Review/	
Update	Define Test				
		CM	CK	Update	
	Review/	Review/	Review/	Review/ Summary Update Define Test	

E. Designing Encounter Forms based on Preventive Maintenance Guidelines

The Health Summary provides critical clinical information related to the patient for ambulatory care encounters. The encounter form is a means of documenting clinical activity/updates for a patient during the patient's encounter. This appendix sub-section gives a brief overview of how PCE, AICS, and Health Summary packages impact the clinician for tracking a patient's preventive maintenance guidelines. The following is a possible scenario for a clinician:

- 1. A clinician receives the encounter form and health summary for use during the encounter.
- **2.** The clinician reviews the clinical reminder component and/or the Clinical Maintenance component for items that are "DUE NOW."
- **3.** The encounter form is predefined with a format that supports the clinical activity related to the reminders. If the clinician is going to ask about education, the clinician should also be prepared to give the appropriate education and document the information gathered from the inquiry.

Recommendation: If a clinician asks about the education needed and finds that education is needed, but isn't able to give the education, *the screening bubble should not be checked off* on the encounter form. The screening should be filled in when the clinician determines education is not indicated or when the clinician screens *and* gives the education.

Two examples of encounter forms are shown on the following pages with items that might be included to support reminders. These examples are:

- An abbreviated format for a clinic that is not interested in tracking details related to the reminders.
- An example of how detailed a clinic could choose to go with data capture related to the reminders.

If the clinician gives abbreviated education for all facets of the education topic, the "Alcohol Use Education" header should be the box checked; otherwise check-off the appropriate education given. If the clinician has health factor and diagnosis findings that he or she would like to see documented during the screening process, the appropriate boxes should be checked off.

Encounter Form Examples

a) Minimum Set

The following example represents a "minimum set" of information (without bubbles) that we recommend for the encounter form. It satisfies NCHP and can also be captured by PCE based on current PCE definitions. If new education topics are needed to represent the remaining screening items, they can be added.

Screening	Procedures:
Alcohol Use Screening	Immunizations:
Tobacco Use Screening	Pneumococcal
Nutrition/Obesity Screening	Influenza
Fitness and Exercise Screening	Tetanus and Diphtheria
Seatbelt Use Screening	
Education	Pap Smear
Alcohol Use Education	FOBT
Exercise Education	Sigmoidoscopy
Nutrition/Obesity Education	
Seatbelt Use Education	
Smoking Cessation Education	

b) Sample of Detailed Content (without bubbles)

Alcohol Use Management	Tobacco Use Management for Health Promotion
Alcohol Use Education	Tobacco Use
Screening/Inquiry	Screen/Inquiry
Diet	Smoking Education
Disease Process	Health Factors
Complications	Lifetime Non-Tobacco User
Exercise	Lifetime Non-smoker
Follow-up	Current Non-smokeless
Lifestyle Adaptations	Current Smoker
Medications	Smokeless Tobacco User
Alcohol Use Health Factors:	Current Non-Smokeless
	Tobacco User
Non-Drinker	Hx of Chewing Tobacco
Family Hx of alcohol	Hx of smoking
abuse/addiction	
Heavy Drinker (3 or more/day)	Hx of Sec. Smoke Inhal.
Moderate Drinker	Diagnosis: Tobacco Abuse-
Binge Drinking	Continuous
Drinking Alone	Episodic
Hx of Alcohol Treatment	In Remission
Legal Complications	Unspecified
Driving Under the Influence	Use Disorder - Unspecified
Alcohol Use Diagnoses:	
Delirium Tremens	
Cirrhosis of the Liver	
Alcohol Abuse - Unspecified	
Alcohol Abuse - Episodic	
Alcohol Abuse - Continuous	
Alcohol Abuse - In Remission	
Alcohol Dependence	
Alcohol Dependence - In	
Remission	
Hx of Alcoholism	

III. Creating and Customizing Clinical Reminders	

A. Technical Overview of Reminder Logic

NOTE: This overview is extracted from the PCE REMINDER/ MAINTENANCE ITEM file data dictionary description.

This file contains the definitions of reminders which can be selected for use in the Health Summary package components:

CLINICAL REMINDERS - This component evaluates patient findings to determine if the reminder is "DUE NOW."

CLINICAL MAINTENANCE - This component evaluates patient findings and reports the findings or lack of findings used to determine whether or not the reminder is due.

Reminder definitions are contained in this file. Each reminder is categorized by "Reminder Type." Based on the reminder type, a "Target Result Findings File" is specified along with the particular items from that file that should be used. For example, for an immunization reminder the target is the IMMUNIZATION file. The particular items would be the name(s) of the immunizations. For each specified immunization, the V IMMUNIZATION file is searched for patient results. For Laboratory reminders, exact names used by the site make up the item list.

Target age groups may be defined for each reminder in this file, based on patient's age. Reminder frequencies may be defined by age ranges in the Baseline Age Findings multiple. The age range and reminder frequency to use for the reminder can be altered based on findings of diagnosis, procedure, or health factor data related to a specific patient. The patient's age from PIMS is used for age findings.

Diagnosis and Procedure findings are based on definitions of coded standard ranges defined in the Taxonomy file. The Taxonomy file is distributed with predefined definitions for all reminders distributed by the PCE package. Facilities may create their own taxonomies to use in locally defined reminders. The taxonomies defined for evaluating patient data for diagnosis and procedure findings for a reminder are defined in the "Taxonomy Findings" fields. Based on the patient taxonomy findings, a reminder's frequency and minimum and maximum age criteria can be changed. Text may be defined which will be displayed in the Health Summary "Clinical Maintenance" component to reflect taxonomy findings found or not found in the patient data.

If a taxonomy definition in the Taxonomy file is defined with ICD Diagnosis code ranges, the following files are checked for findings of a code within the Diagnosis ranges specified:

PROBLEM File (AUPNPROB) in Problem List

V POV File (AUPNVPOV) in PCE (representing problems/diagnosis treated at encounter)

PTF File (DGPT) in PIMS (Inpatient Diagnosis summary information)

If a taxonomy definition in the Taxonomy file is defined with CPT code ranges, the following patient file is checked for findings of a code within the CPT ranges specified:

V-CPT File (PCE, representing procedures done at patient encounters)

Technical Overview of Reminder Logic, cont'd

If a taxonomy definition in the Taxonomy file is defined with ICD Operation/Procedure codes, the following patient file is checked for findings of a code within the ICD Operation/Procedure code ranges specified:

PTF File (PIMS, Inpatient Operation/Procedures summary information)

Health factors are defined in the Health Factors file, and can be used to identify health indicators for use with reminders. These factors are not based on a coded standard. A pre-defined set of health factors distributed by PCE is used by the distributed reminders. Facilities may create their own health factors to use in locally defined reminders. The health factors defined for evaluating patient data for this reminder are defined in the "Health Factor Findings" fields. Based on the patient health factor findings, a reminder's frequency and minimum and maximum age criteria can be changed. Text may be defined which will be displayed in the Health Summary "Clinical Maintenance" component to reflect health factor findings found or not found in the patient data.

PCE's "V HEALTH FACTORS" file represents a patient's health factors recorded as of a given encounter date. All health factors defined in the reminder are used to evaluate patient information in the V HEALTH FACTORS File. Out of all the health factor findings, the most recent health factor finding within each health factor category will be used for the reminder processing.

Health factors can be used to record "pertinent negative findings," for example "lifetime non-smoker." Pertinent negative findings can be used to make a reminder non-applicable via an "AND NOT" entry in the Use in Apply Logic field. The health factor file contains INACTIVATE and ACTIVATE health factors for each NCHP (VA-* prefixed) reminder. The VA-* reminder definitions provide examples of how the INACTIVATE health factor can be used to stop a reminder for a particular patient. This provides a generic mechanism to record pertinent negatives. The Health Factor Comment field can be used to record the reason for inactivating the reminder.

Computed Findings may also be used in the reminder logic. Computed Findings are based on the evaluation of M logic as true or false. The distributed reminders include an example of computed findings to evaluate patient height and weight information to calculate the Body Mass Index (BMI) and compare it to a national standard of 27 indicating obesity. Local facilities may program their own computed findings for use with reminders.

A complete description of the elements of this file and how they actually define a reminder can be found in Appendix A (Developing and Customizing Clinical Reminders) of the PCE User Manual.

Each processing step of the reminder logic can create output. This output is stored in a working array that is built up as the reminder is processed.

Technical Overview of Reminder Logic, cont'd

General reminder logic:

The general logic is very similar for every reminder. Specific differences for each reminder type can be found in the Reminder Type file

SEX SPECIFIC - If the reminder is sex-specific, the sex of the patient is compared with the reminder sex. If the patient is the wrong sex, go to step OUTPUT; otherwise continue.

HEALTH FACTORS - If there are health factors associated with the reminder they are compared with the health factors associated with the patient. These are found in the file AUPNVHF. Any matching health factors are stored in the health factor array HFA.

STANDARD CODED ITEMS - Standard coded items are specified for the reminder by a list of Taxonomies. The entries in the Taxonomy files specify a range of codes (low to high) and the file the codes come from. The permissible taxonomy entries are ICD diagnosis (file 80 ICD9), ICD operation/procedure (file 80.1 ICD0), and CPT (file 81 ICPT). For each taxonomy entry, a list of internal entry numbers (iens) corresponding to the codes within the specified range is built. These lists are ICD9IEN, ICD0IEN, and ICPTIEN. Next a list of iens is built for the patient. ICD9 patient entries are searched for in the Problem of Visit file V POV (AUPNVPOV), the Patient Treatment file (DGPT), and the Problem file (AUPNPROB). We search for ICD0 entries in DGPT and ICPT entries in V CPT (AUPNVCPT). The patient entries and taxonomy entries are examined for matches. The most recent entry is retained. In the case of ICD9, the most recent entry in each of the possible search files is retained.

COMPUTED FINDINGS - If a computed finding has been defined for the reminder, it is evaluated.

BASELINE CRITERIA - The baseline values for minimum age, maximum age, and reminder frequency are established by determining the appropriate age range for the patient.

FINAL CRITERIA - Each computed finding, health factor, and taxonomy can have a minimum age, maximum age, and frequency associated with it. When a particular item is found and it has a minimum age, maximum age, and frequency, the baseline values are replaced by these values. In the case where there is more than one applicable computed finding, health factor, or taxonomy, and there are conflicting ages or frequencies, the conflict is resolved by: 1) using the rank frequency field to specify the ranking, with number 1 being the highest rank frequency. 2) (when rank frequency not defined) using the frequency and age range that has the frequency that will make the reminder be given most often.

AGE CHECK - After the previous step is complete, final values for minimum age and maximum age are available. A null value has special significance. It means that no check is to be made. Thus, if the minimum age is null and the maximum age is 65, the reminder is applicable to all patients through age 65. If the patient does not meet the age criteria, we go to step OUTPUT; otherwise we continue.

Technical Overview of Reminder Logic, cont'd

APPLY LOGIC - An optional "apply logic" string can be given as part of the reminder definition. When it is not modified by a user, a default APPLY LOGIC string is created, based on the reminder definition. The string specifies Boolean logical combinations of computed findings, health factors, and taxonomies. This gives us the ability to precisely define when the reminder should be given. For example, we could require that a particular taxonomy be found before the reminder is given. The USE IN APPLY LOGIC field for the taxonomy is defined with "AND." The default logic looks for all USE IN APPLY LOGIC references to build the APPLY LOGIC string. The string is in the form of a MUMPS logical string. An example is (SEX)&(AGE)&(TF(5)). SEX and AGE will always be part of the default APPLY LOGIC. The USE IN APPLY LOGIC field for taxonomies, health factors, and computed findings can be defined as "AND," "OR," "AND NOT," "OR NOT" logic, as needed.

TARGET PATIENT ENTRIES - A list of all the patient's entries in the target file is built. The specific targets depend upon the reminder. They can be found in the Reminder Type file.

MOST RECENT TARGET DATE - The patient list is matched against the entries in the target file for the reminder topic and the date the reminder was last given is determined.

DUE DETERMINATION - The date found in the previous step along with the dates for any taxonomies, health factors, and computed findings that have USE IN DATA DUE CALC marked as YES are compared to find the most recent date. The most recent date, the final reminder frequency, and do in advance time are used to determine when the reminder is due.

OUTPUT - The final step is to take all the information stored in the working array and format it for Health Summary to display.

B. Developing And Customizing Clinical Reminders

Introduction

Clinical Reminders and Clinical Maintenance can be called by Health Summary to provide clinical reminder or maintenance information for a patient. The PXRM routines and associated data files have been developed to allow sites maximum flexibility both for customizing reminders and for developing new ones. This appendix section provides detailed information about customizing or developing new reminders.

The easiest way to create a new reminder is to copy an existing one and then edit it. Menu options to aid the customization and development of new reminders include *PXRM Reminder Copy*, *PXRM Reminder Edit*, *PXRM Taxonomy Copy*, and *PXRM Taxonomy Edit*.

Files associated with PXRM:

```
PCE REMINDER/MAINTENANCE ITEM (#811.9)
PCE REMINDER TYPE (#811.8)
PCE TAXONOMY (#811.2)
```

The contents and use of each of these files are described below.

Reminder Definition

The primary file is PCE REMINDER/MAINTENANCE ITEM, which provides the definition of a reminder item. The other two files provide auxiliary information required for defining the item. Since the ability to set up or modify an item requires an understanding of the contents of this file, each of the fields is described below.

Group 0

```
^PXD(811.9,D0,0)= (#.01) NAME [1F] ^ (#1) REMINDER TYPE [2P] ^ (#1.2) PRINT

==>NAME [3F] ^ (#1.3) DO IN ADVANCE TIME FRAME [4F] ^ (#1.4)

==>RELATED REMINDER STANDARD [5P] ^ (#1.6) INACTIVE FLAG [6S]

==>^ ^ (#1.8) IGNORE ON N/A [8F] ^ (#1.9) SEX SPECIFIC [9S] ^
```

NAME—This is the name of the reminder; examples: VA-BLOOD PRESSURE, VA-MAMMOGRAM, and VA-CHOLESTEROL.

REMINDER TYPE—This is a pointer to the PCE REMINDER TYPE file and defines the type of reminder. The defined types are EDUCATION, EXAMINATION, IMMUNIZATION, MEASUREMENT, PROCEDURE, RADIOLOGY, and SKIN TEST. Every reminder must be one of these types.

PRINT NAME—This is the name that will be used when the reminder is printed in the Health Summary.

DO IN ADVANCE TIME FRAME—This is a time window used in the due now calculation. If a reminder was due in 20 days and this parameter had the value 30D, then the reminder would be marked as due now. However, if the reminder was due in 35 days it would not be marked as due.

See the reminder frequency description in Group 7 for a description of how to enter time units.

RELATED REMINDER STANDARD—This is a pointer to one of the NCHP reminders distributed with the Clinical Reminders. It is used to mark a reminder as meeting or exceeding the requirements of a particular NCHP reminder.

INACTIVE FLAG—This flag marks a reminder as active or inactive for use by Health Summary. The option (IN)/ACTIVATE REMINDERS can be used to change this flag.

IGNORE ON N/A—The default behavior of the Clinical Maintenance component is to give a message that a reminder is non-applicable, N/A, due to the patient's sex or age. This field is a string consisting of single letters that will prevent these messages from being displayed. To prevent the age message from being displayed this field should contain an "A." Similarly, for sex it should contain an "S."

SEX SPECIFIC—This field is used to make a reminder sex-specific. The entry is a single letter code, F for female and M for male. If it is left blank, then the reminder is applicable for either sex.

REMINDER DESCRIPTION—This word processing field is used to provide a description of the reminder. This allows for documentation of the reminder within the file.

Group 2

TECHNICAL DESCRIPTION—This is the technical description of the reminder.

Group 3

```
^PXD(811.9,D0,3,0)=^811.94P^^ (#4) TARGET RESULT FINDINGS
^PXD(811.9,D0,3,D1,0)= (#.01) TARGET RESULT FINDINGS FILE [1P] ^
^PXD(811.9,D0,3,D1,1,0)=^811.941^^ (#1) TARGET RESULT DESCRIPTION
^PXD(811.9,D0,3,D1,1,D2,0)= (#.01) TARGET RESULT DESCRIPTION [1W] ^
^PXD(811.9,D0,3,D1,2,0)=^811.944V^^ (#4) TARGET RESULT FINDINGS ITEM
^PXD(811.9,D0,3,D1,2,D2,0)= (#.01) TARGET RESULT FINDINGS ITEM [1V] ^
^PXD(811.9,D0,3,D1,3,0)=^811.945^^ (#5) TARGET RESULT FOUND TEXT
^PXD(811.9,D0,3,D1,3,D2,0)= (#.01) TARGET RESULT FOUND TEXT [1W] ^
^PXD(811.9,D0,3,D1,4,0)=^811.946^^ (#6) TARGET RESULT NOT FOUND TEXT
^PXD(811.9,D0,3,D1,4,D2,0)= (#.01) TARGET RESULT NOT FOUND TEXT
```

TARGET RESULT FINDINGS FILE—This is a pointer to target file. For example, if the reminder was of type education then the target file would be the Education Topics file.

TARGET RESULT DESCRIPTION—This provides a description of the items targeted by the reminder.

TARGET RESULT FINDINGS ITEM—This multiple is a variable pointer to the specific items targeted by the reminder. For example, the targets for education reminders can be selected from the education topics defined in the Education Topics file. For immunization reminders, the targets can be selected from immunizations defined in the Immunization file. See the distributed reminders for further examples.

TARGET RESULT FOUND TEXT—If there is a record of the patient having received the target item, for example a particular education topic, then the found text will be passed to Health Summary for display.

TARGET RESULT NOT FOUND TEXT—If there is no record of the patient having received the target item, then the Not Found Text will be passed to Health Summary for display.

NOTE: FOUND TEXT and NOT FOUND TEXT

Groups 3, 4, 6, 7 (AGE MATCH TEXT, AGE NO MATCH TEXT), and 10 contain FOUND TEXT and NOT FOUND TEXT entries.

Each of these entries is optional and will only be returned for display by Health Summary if it is present.

Group 4

TAXONOMY—This is a pointer to the TAXONOMY file. The taxonomy entries have the form: low^high^file where low and high specify an inclusive range of applicable codes and file is the number of the file where the codes are located. The file number can be 80 (ICD diagnosis), 80.1 (ICD operation/procedure), or 81 (CPT). Taxonomies are defined and given names which are used when setting up a reminder.

MINIMUM AGE—If the patient is found to have this taxonomy, this minimum age will override the baseline minimum age. If this is left blank, then the baseline minimum age will apply. This provides a mechanism to change the age requirements if a taxonomy is found. (See also Age Findings, Group 7.)

MAXIMUM AGE— This can override the baseline maximum age as with the minimum age above. (See also Age Findings, Group 7.)

REMINDER FREQUENCY—This can override the baseline reminder frequency as with the minimum age above. (See also Age Findings, Group 7.)

RANK FREQUENCY—If more than one taxonomy and/or Health Factor is found for a patient and each of these has its own frequency age range set, then a question arises concerning which one to use. Rank Frequency is used to answer the question. The frequency age range set from the finding with the highest Rank Frequency will be used. (The highest rank is 1.) If no ranking information is available then the software will use the frequency age range set with the frequency that will cause the reminder to be given most often.

USE IN DATE DUE CALC—This field can have the value YES, NO, or blank. If it is YES then finding this taxonomy is equivalent to finding the target item. The most recent date for any of the coded values found in the taxonomy will be used in the Date Due calculation.

USE IN APPLY LOGIC—The field specifies how the taxonomy is to be used in the Apply Logic, see Group 9. The allowed values are AND (&), OR (!), AND NOT (&'), OR NOT (!'), and blank. When it is blank the taxonomy is not used in the Apply Logic. When it contains one of the other values, which is a logical operator, it is included in the Apply Logic preceded by the specified operator.

FOUND TEXT—This text will be returned for display by Health Summary if the taxonomy is found.

NOT FOUND TEXT—This text will be returned for display by Health Summary if the taxonomy is not found.

TAXON GENERAL FOUND TEXT—If any of the taxonomies are found then this text will be returned for display by Health Summary.

TAXON GENERAL NOT FOUND TEXT—If none of the taxonomies are found then this text will be returned for display by Health Summary.

```
^PXD(811.9,D0,6,0)=^811.911P^^ (#11) HEALTH FACTOR FINDINGS
^PXD(811.9,D0,6,D1,0)= (#.01) HEALTH FACTOR FINDINGS ITEM [1P] ^ (#1) MINIMUM
==>AGE [2N] ^ (#2) MAXIMUM AGE [3N] ^ (#3) REMINDER
==>FREQUENCY [4F] ^ (#6) RANK FREQUENCY [5N] ^ (#7) USE
==>IN DATE DUE CALC [6S] ^ (#8) USE IN APPLY LOGIC [7S] ^
```

```
^PXD(811.9,D0,6,D1,1,0)=^811.9114^^ (#4) FOUND TEXT
^PXD(811.9,D0,6,D1,1,D2,0)= (#.01) FOUND TEXT [1W] ^
^PXD(811.9,D0,6,D1,2,0)=^811.9115^^ (#5) NOT FOUND TEXT
^PXD(811.9,D0,6,D1,2,D2,0)= (#.01) NOT FOUND TEXT [1W] ^
^PXD(811.9,D0,6.1,0)=^811.9110111^^ (#11.1) HF GENERAL FOUND TEXT
^PXD(811.9,D0,6.1,D1,0)= (#.01) HF GENERAL FOUND TEXT [1W] ^
^PXD(811.9,D0,6.2,0)=^811.9110112^^ (#11.2) HF GENERAL NOT FOUND TEXT
^PXD(811.9,D0,6.2,D1,0)= (#.01) HF GENERAL NOT FOUND TEXT [1W] ^
```

HEALTH FACTOR— This is a pointer to the Health Factors file. Health factors that are associated with the reminder are included this way.

MINIMUM AGE—Just as with taxonomy, this minimum age can override the baseline minimum age if the Health Factor is found.

MAXIMUM AGE—The same as for the minimum age above.

REMINDER FREQUENCY— The same as for minimum age above.

RANK FREQUENCY—The same as for taxonomy, see Group 4.

USE IN DATE DUE CALC—The same as for taxonomy, see Group 4.

USE IN APPLY LOGIC—The same as for taxonomy, see Group 4.

FOUND TEXT—This text will be returned for display by Health Summary if the Health Factor is found.

NOT FOUND TEXT—This text will be returned for display by Health Summary if the Health Factor is not found.

HF GENERAL FOUND TEXT—If any of the health factors are found then this text will be returned for display by Health Summary.

HF GENERAL NOT FOUND TEXT—If none of the health factors are found then this text will be returned for display by Health Summary.

```
^PXD(811.9,D0,7,0)=^811.97^^ (#7) BASELINE AGE FINDINGS
^PXD(811.9,D0,7,D1,0)= (#.01) REMINDER FREQUENCY [1F] ^ (#1) MINIMUM
==>AGE [2N] ^ (#2) MAXIMUM AGE [3N] ^
^PXD(811.9,D0,7,D1,1,0)=^811.973^^ (#3) AGE MATCH TEXT
^PXD(811.9,D0,7,D1,1,D2,0)= (#.01) AGE MATCH TEXT [1W] ^
^PXD(811.9,D0,7,D1,2,0)=^811.974^^ (#4) AGE NO MATCH TEXT
^PXD(811.9,D0,7,D1,2,D2,0)= (#.01) AGE NO MATCH TEXT [1W] ^
```

Age findings provides a way to change the reminder frequency based on a patient's age. The age ranges are searched and if the patient's age lies between the minimum and maximum age these become the baseline frequency age range set. (A frequency age range set is a frequency and its

associated minimum and maximum ages.) There cannot be any overlap between the age ranges because this gives rise to a conflict which cannot be resolved.

REMINDER FREQUENCY—The frequency to give the reminder. This is given as nD, nM, or nY, where D stands for days, M for months, Y for years, and n is a number. Thus, for a reminder that is to be given once a year, the values 365D, 12M, or 1Y would all work. (This format is used for all time-related entries.) There are two special reminder frequencies. The frequency 0Y means that the reminder is never to be given. This is used to create reminders that are given only to patients who have certain findings. For example the distributed VA-DIABETIC reminders are setup up so they are given only to patients who have the VA-DIABETIC taxonomy. The second special frequency is 99Y. This is used for reminders that are to be given once in a lifetime.

MINIMUM AGE—The minimum age associated with this reminder frequency.

MAXIMUM AGE—The maximum age associated with this reminder frequency.

AGE MATCH TEXT— If the patient's age lies in the specified age range, this text will be returned for display by the Health Summary.

AGE NO MATCH TEXT— If the patient's age does not lie in the specified age range, this text will be returned for display by the Health Summary.

```
^PXD(811.9,D0,9)= (#9) APPLY LOGIC [1F] ^
```

APPLY LOGIC—This specifies how the findings for a reminder are to be used in determining if the reminder is applicable for a patient. The findings consist of any combination of computed findings, health factors, and taxonomies that are included in the reminder definition.

The Apply Logic used in the reminder evaluation can be created in one of two ways. If this field is left blank then the software will create an Apply Logic string starting with a default string of (SEX)&(AGE) appending each finding that has a non-blank Use in Apply Logic entry with the specified operator. As an example consider a reminder that contains taxonomy number 28 with a Use in Apply Logic entry of &. In this case the software will create an Apply Logic string of (SEX)&(AGE)&(TF(28)).

The other alternative is to specify the Apply Logic directly in the reminder definition. When this is done the software will use whatever is in the Apply Logic field ignoring any Use in Apply Logic fields. If this alternative is used care must be taken that the Apply Logic is written so that it will evaluate to a proper Mumps (M) logical. In order to do this you need to understand how the Apply Logic is used.

The Apply Logic is based on the M Boolean logical operators, & (AND), ! (OR) and their negations &' (AND NOT), !' (OR NOT). The & operator requires both items to be true in order

to be true. The ! operator is true if either of the items is true. This is easiest to understand by looking at some examples.

Consider reminder number X which has the following taxonomy entries:

```
^PXD(811.9,X,4,1,0)=7
^PXD(811.9,X,4,2,0)=11^40^75^6M^5^^^&
```

and the following health factor entries:

```
^PXD(811.9,X,6,1,0)=4^42^^1Y
^PXD(811.9,X,6,2,0)=9
```

The default logic, which is created automatically if the Apply Logic is left blank, would be (SEX)&(AGE)&(TF(11)). SEX is evaluated if the reminder is sex-specific. It is set to true if the patient is the correct sex. If the reminder is not sex-specific, then SEX is always true. AGE is evaluated after the final frequency age range set has been established. It is set to true if the patient's age falls within the age range. If there is no age range specified for the reminder then AGE is always true. TF(11) stands for the taxonomy finding for taxonomy number 11. (Similarly HF stands for health factor finding and CF for computed finding.) Thus the default logic says that SEX, AGE, and TF(11) must all be true in order for the reminder to be applicable. Since health factors 4 and 9 have a blank Use in Apply Logic field they are not is not included in the Apply Logic and are used for information only.

If you require a more complex Apply Logic than the simple appending mechanism of the Use in Apply Logic provides then you must include the Apply Logic in the reminder definition. Some examples:

(SEX)&(AGE)&(HF(9)!(TF(7))—the reminder is applicable if SEX and AGE and either health factor 9 or taxonomy 7 is true (found).

(SEX)&(AGE)&'(HF(9)&TF(7))—the reminder is applicable if SEX and AGE are true and neither health factor 9 or taxonomy 7 is true.

The Reminder Inquiry option can be used to see the Apply Logic string in both the numeric form and expanded form where the number is replaced by the name of the finding. This can be used to make sure that the Apply Logic used in the reminder evaluation is actually what you think it is.

Group 10

```
^PXD(811.9,D0,10,0)=^811.9001^^ (#10) COMPUTED FINDINGS
^PXD(811.9,D0,10,D1,0)= (#.01) ROUTINE [1F] ^ (#1) MINIMUM AGE [2N] ^ (#2)
==>MAXIMUM AGE [3N] ^ (#3) REMINDER FREQUENCY [4F] ^
==>(#4) SHORT DESCRIPTION [5F] ^ (#7) RANK FREQUENCY
==>[6N] ^ (#8) USE IN DATE DUE CALC [7S] ^ (#9) USE IN
==>APPLY LOGIC [8S] ^
^PXD(811.9,D0,10,D1,1,0)=^811.90015^^ (#5) FOUND TEXT
^PXD(811.9,D0,10,D1,1,D2,0)= (#.01) FOUND TEXT [1W] ^
```

```
^PXD(811.9,D0,10,D1,2,0)=^811.90016^^ (#6) NOT FOUND TEXT 
^PXD(811.9,D0,10,D1,2,D2,0)= (#.01) NOT FOUND TEXT [1W] ^
```

At this point we can see that reminder definitions are very flexible and easily customized. However, there may be cases where the requirements are not entirely met by the mechanisms described above. In these cases, computed findings can be used. Computed findings are M routines that return 1 for true and 0 for false. They can be used in the logic just like taxonomies and health factors.

ROUTINE—The name of an M routine that will be executed. For obvious reasons, only an experienced M programmer should attempt to create a computed factor routine. Programming details are given in the section Writing a Computed Finding Routine. This entry is specified in the form ENTRYPOINT;ROUTINE.

MINIMUM AGE—This is the minimum age associated with the computed finding routine and can be used to override the baseline minimum age.

MAXIMUM AGE—This is the maximum age associated with the computed finding routine and can be used to override the baseline maximum age.

REMINDER FREQUENCY—This is the reminder frequency associated with the computed finding routine and can be used to override the baseline reminder frequency.

SHORT DESCRIPTION—This field can be used to contain a short description of what the Computed Finding does.

RANK FREQUENCY—The same as for taxonomies, see Group 4.

USE IN DATE DUE CALC—The same as for taxonomies, see Group 4.

USE IN APPLY LOGIC—The same as for taxonomies, see Group 4.

How is the final frequency age range set determined?

As we have seen, there can be a minimum age, maximum age, and frequency associated with computed findings, health factors, and taxonomies that can override the baseline values. The question is: How is the final set determined?

The baseline values are set from the data in Group 7. The age range in which the patient's age falls sets the minimum age, maximum age, and frequency. Leaving a minimum age blank means that there is no minimum age for the reminder; therefore, the patient will always meet the minimum age requirement. The same holds true for maximum age.

Frequency is a different matter since a frequency is required to determine if a reminder is due. A special frequency of 0Y means that FOUND, NOT FOUND TEXT can be displayed, but the reminder can never come up as due, based on the finding associated with the 0Y frequency. Only those findings with a frequency greater than 0 can be used in the date due calculation. A frequency of 99Y can be used for reminders that are due once in a lifetime.

Each taxonomy, health factor, or computed finding can have an associated frequency age range set. If the finding is true—i.e., the patient has the taxonomy, health factor, etc.— the frequency age range set associated with the finding can override the baseline values. Generally this is done to widen the coverage of the reminder. For example, the VA-INFLUENZA IMMUNIZATION is given once a year to patients 65 and over. The baseline frequency age range set has a minimum age of 65, no maximum age, and a frequency of 1Y. The VA-HIGH RISK FOR FLU/PNEUMONIA taxonomy has no minimum age, maximum age, and a frequency of 1Y. Thus, for patients who have this taxonomy, the baseline frequency age range set is overridden and the reminder is applicable for all ages.

Rank Frequency field

In the case when there is more than one true finding and each has a frequency age range set, a method is needed to determine which one to use. The Rank Frequency field was added to meet this need. The frequency age range set with the highest rank (1 being the highest) will be used. If there are no Rank Frequency values available, then the frequency age range set that will cause the reminder to be given most often will be used. For example, if one frequency was 1Y and the other 6M, then 6M would be used since the reminder would be given every six months instead of once a year.

Writing a Computed Finding Routine

A computed finding routine can be used in those cases when the general reminder logic does not provide the required functionality. Computed finding routines should be written as functions that return 1 for true and 0 for false. An example has been provided with the VA-NUTRITION/OBESITY EDUCATION reminder. The computed finding routine is PXRMOBES with entry point OBESE. This function looks up the patient's most recent height and weight

measurements and then calculates the body mass index. If the BMI is greater than 27 it returns 1, meaning the patient is considered obese.

In addition to returning true or false, these functions may set INFO nodes of the working array ^TMP("PXRM",\$J,"WA"). The information nodes have the format

```
^TMP("PXRM", $J,"WA","INFO", PXRMITEM, RNAME, DESCRIPTION) = TEXT
```

DESCRIPTION describes the type of information and TEXT is the information. TEXT will be displayed by the Clinical Maintenance Component of Health Summary. The routine should set DESCRIPTION and TEXT. The other indices are already defined.

In PXRMOBES the INFO nodes are used to return information such as no height or weight measurement available or to return the calculated value of the BMI.

Applicable Menu Options

The following menu options can be used to customize and develop new reminders:

PXRM Reminder Copy, PXRM Reminder Edit, PXRM Taxonomy Copy, PXRM Taxonomy Edit, PXRM Reminder Test.

The easiest way to create a new reminder is to copy an existing one and then edit it. Reminders that are distributed with PCE all begin with VA-. These are intended for national distribution and cannot be edited by a site. When a reminder is copied the user is prompted for a new unique name. A site cannot use the VA- prefix in their reminder names.

PXRM REMINDER TEST

Before a new or modified reminder is put into production it should be thoroughly checked. The Reminder Test option provides a convenient tool that can be used as an aid in setting up new reminders and tracking down problems with existing ones. It lets a reminder be run without going through Health Summary.

To get the most out of using this option you should be familiar with setting up a reminder. This is explained in the Clinical Reminders portions of the PCE User Manual. Relevant sections include Chapter 10 and Appendix A.

When this option is executed, it prompts the user for a patient and then a reminder.

Sample output:

```
Select OPTION NAME: PXRM REMINDER TEST Reminder Test
Select Patient: OUTPATIENT, EDNA
                                        04-01-44
                                                      234776641
                                                                    YES
                                                                            SC
Select Reminder: VA-DIABETIC FOOT EXAM
The elements of the 'TMP("PXRM", $J, "DISC") array are:
^TMP("PXRM",$J,"DISC","1")=The following disease screening, immunization and patient
education TMP("PXRM", $J, "DISC", "2") = recommendations are offered as guidelines to
assist in your practice.
^TMP("PXRM",$J,"DISC","3")=These are only recommendations, not practice standards.
The TMP("PXRM", $J, "DISC", "4") = appropriate utilization of these for your individual
patient must be^TMP("PXRM",$J,"DISC","5")=based on clinical judgment and the
patient's current status.
The elements of the 'TMP("PXRM", $J, "WA") array are:
^TMP("PXRM",$J,"WA","DUE","43","Diabetic Foot Exam")=No Diabetic Foot Exam on
record^2970304
^TMP("PXRM",$J,"WA","ICD9PROB","28","CODE")=250.01
^TMP("PXRM",$J,"WA","ICD9PROB","28","DATE")=2960926
^TMP("PXRM",$J,"WA","ICD9PROB","28","ICD9IEN")=851
^TMP("PXRM",$J,"WA","ICD9PROB","28","PN")=DIABETES MELLI W/O COMP TYP I
^TMP("PXRM",$J,"WA","ICD9VPOV","28","CODE")=250.13
^TMP("PXRM",$J,"WA","ICD9VPOV","28","DATE")=2960918.09
^TMP("PXRM",$J,"WA","ICD9VPOV","28","ICD9IEN")=12830
^TMP("PXRM",$J,"WA","ICD9VPOV","28","MOD")=
^TMP("PXRM",$J,"WA","ICD9VPOV","28","PN")=DIABETES W/ KETOACIDOSIS,TYPE
I[IDDM][JUVENILE TYPE],UNCONTROLLED
^TMP("PXRM",$J,"WA","INFO","43","Diabetic Foot Exam","VA-DIABETES_FOUNDB")=Complete
foot exam required annually for all diabetic patients.
^TMP("PXRM", $J, "WA", "INFO", "43", "Diabetic Foot Exam", "zFREQARNG")=Final Frequency
and Age Range used: 1 year for all ages.
^TMP("PXRM",$J,"WA","LOGIC")=1^(SEX)&(AGE)&(TF(28))^(1)&(1)&(1)
^TMP("PXRM",$J,"WA","RANK","0","365.04","0","0")=TFIND^28
The elements of the 'TMP("PXRHM", $J) array are:
^TMP("PXRHM",$J,"43","Diabetic Foot Exam")=DUE NOW^2970304^unknown
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","1")=9/26/96 Problem Diagnosis:
250.01-DIABETES MELLI W/O COMP TYP I^TMP("PXRHM",$J,"43","Diabetic Foot
Exam", "TXT", "2") = 9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I
^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","3")=Complete foot exam required
annually for all diabetic patients. ^TMP("PXRHM", $J,"43", "Diabetic Foot
Exam","TXT","4")=Final Frequency and Age Range used: 1 year for all ages.
Press RETURN to continue...
```

The output from this option provides a view of the internal workings of the clinical reminders software and allows you to see what happened as the reminder was evaluated. Errors and warnings that are not always seen on the Health Summary are displayed here. When setting up a reminder, it's a good idea to have test patients with known clinical data such as examinations, immunizations, ICDs, CPTs, etc., that are pertinent to the reminder being developed. Using this option to run the reminder for test patients allows you to see if the reminder operates as expected.

Found and Not Found Text can be included in a number of places in the reminder definition. An example is taxonomies. The Found Text will be displayed if the taxonomy is found and the Not Found Text will be displayed if the taxonomy is not

found. This text is optional and should only be included if you want something displayed.

The text should be chosen with care because it can give misleading information within the total context of the findings. For example, consider a skin test reminder. The reminders software searches the V Skin Test file and for a coded value if there is a taxonomy. Confusion could arise if the taxonomy Not Found Text was "No skin test found" and the reminders found an entry in the V Skin Test File but no match on the taxonomy. The Health Summary would show the date of the skin test and the message "No skin test found." A less confusing Not Found Text would be "No CPT for skin test found." You should review your output to make sure that it makes sense.

Output Explanations

An explanation of each piece of the [PXRM REMINDER TEST] output follows. This explanation assumes that you are familiar with the various elements that comprise a reminder definition.

Example 1

```
The elements of the ^TMP("PXRM",$J,"DISC") array are:

^TMP("PXRM",$J,"DISC","1")=The following disease screening, immunization and pat ient education^TMP("PXRM",$J,"DISC","2")=recommendations are offered as guidelines to assist in your practice.

^TMP("PXRM",$J,"DISC","3")=These are only recommendations, not practice standard s. The^TMP("PXRM",$J,"DISC","4")=appropriate utilization of these for your individualpatient must be

^TMP("PXRM",$J,"DISC","5")=based on clinical judgment and the patient's current status.
```

^TMP("PXRM",\$J,"DISC") is a formatted array containing the disclaimer that is displayed at the beginning of the Clinical Maintenance or Clinical Reminders component of Health Summary.

^TMP("PXRM",\$J,"WA") is the working array used by the reminders software to store data during processing. Examining this array provides detailed information about what was found or not found during the reminder evaluation. The first three subscripts "PXRM",\$J,"WA" can be ignored, they just provide a unique storage area in the computer's memory. The remaining subscripts do contain useful information. The entries seen in ^TMP("PXRM",\$J,"WA", reflect what was found when the reminder was evaluated for a specific patient. Therefore the subscripts seen and the order they appear will vary.

```
^TMP("PXRM",$J,"WA","DUE","43","Diabetic Foot Exam")=No Diabetic Foot Exam on record^2970304
```

The "DUE" subscript tells us the reminder is due, 43 is the reminder internal entry number, and "Diabetic Foot Exam" is the name of the reminder. The text on the right side of the equal sign tells us that no past diabetic foot exam was found and the second piece is the date the reminder was run and will appear on the Health Summary as the date due, i.e., the reminder is due on 3/4/97.

```
^TMP("PXRM",$J,"WA","ICD9PROB","28","CODE")=250.01

^TMP("PXRM",$J,"WA","ICD9PROB","28","DATE")=2960926

^TMP("PXRM",$J,"WA","ICD9PROB","28","ICD9IEN")=851

^TMP("PXRM",$J,"WA","ICD9PROB","28","PN")=DIABETES MELLI W/0 COMP TYP I
```

This group of lines tells us that an ICD9 entry was found in the Problem List. (Other file abbreviations for ICD9 entries are DGPT (Patient Treatment File), and VPOV (V Purpose of Visit File)). The taxonomy containing this code was number 28. The ICD9 code is 250.01, the date in Fileman format is 2960926, the ICD9 internal entry is 851 and the provider narrative is "DIABETES MELLI W/O COMP TYP I".

```
^TMP("PXRM",$J,"WA","ICD9VPOV","28","CODE")=250.13

^TMP("PXRM",$J,"WA","ICD9VPOV","28","DATE")=2960918.09

^TMP("PXRM",$J,"WA","ICD9VPOV","28","ICD9IEN")=12830

^TMP("PXRM",$J,"WA","ICD9VPOV","28","MOD")=

^TMP("PXRM",$J,"WA","ICD9VPOV","28","PN")=DIABETES W/ KETOACIDOSIS,TYPE
I[IDDM][JUVENILE TYPE],UNCONTROLLED
```

This group of lines tells us that an ICD9 entry was found in the V Purpose of Visit file. The other entries are the same as in the previous group.

```
^TMP("PXRM",$J,"WA","INFO","43","Diabetic Foot Exam","VA-DIABETES_FOUNDB")=Complete foot exam required annually for all diabetic patients.
```

This is the Found Text array as defined in the reminder. In this case the Found Text comes from taxonomy 28, "VA-DIABETES".

```
^TMP("PXRM",$J,"WA","INFO","43","Diabetic Foot Exam","zFREQARNG")=Final Frequency and Age Range used: 1 year for all ages.
```

This line tells us the final frequency and age range used in the date due calculation.

```
^TMP("PXRM",$J,"WA","LOGIC")=1^(SEX)&(AGE)&(TF(28))^(1)&(1)&(1)
```

This line is one of the most important in the output. It gives all the information concerning the APPLY LOGIC. There are three pieces separated by ^. The second piece is the APPLY LOGIC string used to determine if the reminder should be given. In order for the reminder to be given, SEX, AGE, and taxonomy finding 28, TF(28), all have to be true. In this case, the taxonomy finding was true because one of the codes in the taxonomy was found in the patient's clinical data. The third piece shows us the outcome of the finding evaluation; in this example they are all true. (True is represented by 1 and false by 0.) The first piece is the logical evaluation of the third piece. In this case, the APPLY LOGIC evaluates to true, so the reminder will be given. When the APPLY LOGIC evaluates to false, the reminder is Not Applicable, N/A.

```
^TMP("PXRM",$J,"WA","RANK","0","365.04","0","0")=TFIND^28
```

This line gives information about the ranking process used to determine the final frequency age range set. The subscript immediately following "RANK" is the rank value. When no rank value has been defined in the reminder, the value will be "0". For this example, there is no "rank" so we determine the frequency age range set to use based on the frequency which causes the reminder to be given the most often. The "365.04" is the conversion of the final frequency, one year (1Y) to days. The smallest value of frequency in days is the one that will cause the reminder to be given most often. The two subscripts following the frequency correspond to minimum age and maximum age. A value of "0" for these subscripts has special significance -- it means that there is no minimum or no maximum age. The value on the right side of the equal sign indicates that this frequency came from a taxonomy finding (TFIND) and the internal entry number of the taxonomy was 28.

```
The elements of the ^TMP("PXRHM",$J) array are:
    ^TMP("PXRHM",$J,"43","Diabetic Foot Exam")=DUE NOW^2970304^unknown
    ^TMP("PXRHM",$J,"43","Diabetic Foot Exam","TXT","1")=9/26/96 Problem Diagnosis:
```

```
250.01-DIABETES MELLI W/O COMP TYP I^TMP("PXRHM", $J,"43","Diabetic Foot Exam","TXT","2")=9/18/96 Encounter Diagnosis: 250.13-DIABETES W/KETOACID. TYPE I ^TMP("PXRHM", $J,"43","Diabetic Foot Exam","TXT","3")=Complete foot exam required annually for all diabetic patients.^TMP("PXRHM", $J,"43","Diabetic Foot Exam","TXT","4")=Final Frequency and Age Range used: 1 year for all ages.
```

The ^TMP("PXRHM",\$J) array is the final information that is passed to Health Summary for display. The output in the Health Summary will reformat the date into an external format, display it, and then display the text lines.

Example 2

```
Select Patient: OUTPATIENT, EDNA 04-01-44 234776641 YES SC VETERAN Select Reminder: VA-MAMMOGRAM
```

This is our input to the option.

```
The elements of the 'TMP("PXRM",$J,"DISC") array are: 
'TMP("PXRM",$J,"DISC","1")=The following disease screening, immunization and patient education 'TMP("PXRM",$J,"DISC","2")=recommendations are offered as guidelines to assist in your practice. 'TMP("PXRM",$J,"DISC","3")=These are only recommendations, not practice standards. The 'TMP("PXRM",$J,"DISC","4")= appropriate utilization of these for your individual patient must be 'TMP("PXRM",$J,"DISC","5")=based on clinical judgment and the patient's current status.
```

This is the reminder disclaimer.

```
The elements of the ^TMP("PXRM", $J,"WA") array are:
^TMP("PXRM", $J,"WA","AF_FNF","2")=AF 2 FOUND
```

The "AF_FNF" subscript corresponds to Age Finding Found Not Found information. There was a match between the patient's age and Baseline Age Finding number 2.

```
^TMP("PXRM",$J,"WA","HF","43","DATE")=2960429
^TMP("PXRM",$J,"WA","HF","43","FREQ")=
^TMP("PXRM",$J,"WA","HF","43","MAXAGE")=
^TMP("PXRM",$J,"WA","HF","43","MINAGE")=
```

This group of lines provides Health Factor information. The Health Factor with internal entry number 43 was found and the date was 2960429. There was no frequency or age range associated with this Health Factor.

```
^TMP("PXRM",$J,"WA","ICPT","16","CODE")=76092
^TMP("PXRM",$J,"WA","ICPT","16","DATE")=2970221.142333
^TMP("PXRM",$J,"WA","ICPT","16","ICPTIEN")=76092
^TMP("PXRM",$J,"WA","ICPT","16","PN")=MAMMOGRAM, SCREENING
^TMP("PXRM",$J,"WA","ICPT","16","SNAME")=MAMMOGRAM, SCREENING
```

This group of lines tells us that CPT information was found. The CPT code was 76092 and it came from taxonomy 16. The date was 2970221, the CPT file internal entry number was 76092, the provider narrative from the V CPT file was "MAMMOGRAM, SCREENING," and the CPT short name from the CPT file was "MAMMOGRAM, SCREENING."

```
^TMP("PXRM",$J,"WA","INFO","19","Mammogram","AF 2 FOUNDB")=Women ages 50-69 should receive a mammogram every two years.
```

This is Found Text for the Age Finding 2 defined in the reminder.

```
^TMP("PXRM",$J,"WA","INFO","19","Mammogram","HFC1")=Health Factor comments:
Activate health factor comments
```

This is a Health Factor comment from the patient's V Health Factor findings.

```
^TMP("PXRM",$J,"WA","INFO","19","Mammogram","VA-BREAST TUMOR NOT_FOUNDB")=No history of breast cancer/tumor on file.
```

This is Not Found Text for taxonomy 19.

```
^TMP("PXRM",$J,"WA","INFO","19","Mammogram","WARNING","TAX")=Taxonomy 18 entry V 10.3^V10.3 does not have a source file, assuming file 80.
```

This is warning information and it will not be displayed on the Health Summary. The text is self-explanatory once you remember that a taxonomy entry requires a low coded value, a high coded value, and a source file.

This entry in taxonomy 18 has a low coded value of V10.3, a high coded value of V10.3 and the source file is missing. To process the reminder a source file is required. In order to continue, the reminder's logic assumes that it is file 80, the ICD diagnosis file. If you really wanted the CPT or ICD operation/procedures file then you should change the taxonomy.

Some other warnings you might see:

"Warning no reminder frequency, cannot calculate date due!" This means the reminders software was not able to establish a frequency. Most likely, it was left out of the Baseline Age Findings.

"Warning no do in advance time"

There was no do in advance time in the reminder definition, the reminders software will use 0 in the date due calculation.

```
^TMP("PXRM", $J, "WA", "INFO", "19", "Mammogram", "zFREQARNG")=Final Frequency and Age Range used: 2 years for ages 50 to 69.
```

This is the final frequency and age range information used in the date due calculation. This comes from the rank and frequency evaluation discussed above.

```
^TMP("PXRM",$J,"WA","LOGIC")=1^(SEX)&(AGE)&'(HF(42))^(1)&(1)&'(0)
```

This is the APPLY LOGIC string and provides an example of how the INACTIVATE Health Factors work. The INACTIVATE Health Factor for this reminder is HF(42) so the logical operator is &'. We can see this reminder has not been inactivated for this patient because HF(42) is false. SEX and AGE are true, so the entire APPLY LOGIC string evaluates to true; therefore the reminder will be given.

```
^TMP("PXRM",$J,"WA","NOTDUE","19","Mammogram")=Mammogram due on^2990221.142333^2 970221.142333
```

This tells that the reminder is not due. It is due on 2990221 and was last given on 2970221.

```
^TMP("PXRM",$J,"WA","RAD","436","CPT")=76091

^TMP("PXRM",$J,"WA","RAD","436","DATE")=2960826

^TMP("PXRM",$J,"WA","RAD","436","NAME")=MAMMOGRAM BILAT

^TMP("PXRM",$J,"WA","RAD","436","SNAME")=MAMMOGRAM, BOTH BREASTS
```

These lines tell us that radiology information was found. The number 436 is the radiology procedure pointer. The CPT code is 76091, the date of the procedure is 2960826, the name of the radiology procedure is "MAMMOGRAM BILAT," and the CPT short name is "MAMMOGRAM, BOTH BREASTS."

```
^TMP("PXRM",$J,"WA","RDATE","2970221.142333")=TFDATE^16
```

This line tells that the date used in the date due calculation was 2970221 and that it came from a taxonomy finding for taxonomy number 16. Notice that this date is more recent than the date of the radiology procedure. This is an example of how the Use in Date Due Calc field works.

```
The elements of the ^TMP("PXRHM",$J) array are:
    ^TMP("PXRHM",$J,"19","Mammogram")=^2990221.142333^2970221.142333
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","1")=4/29/96 Health Factor: ACTIVATE BREAST
CANCER SCREEN
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","2")=2/21/97 Encounter Procedure: 76092-
MAMMOGRAM, SCREENING
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","3")=Women ages 50-69 should receive a
mammogram every two years.
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","4")=Health Factor comments: Activate health
factor comments
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","5")=No history of breast cancer/tumor on
file. ^TMP("PXRHM",$J,"19","Mammogram","TXT","6")=Final Frequency and Age Range
used: 2 years for ages 50 to 69. ^TMP("PXRHM",$J,"19","Mammogram","TXT","7")=8/26/96
Radiology Procedure: 76091-MAMMOGRAM, BOTH BREASTS; MAMMOGRAM
    ^TMP("PXRHM",$J,"19","Mammogram","TXT","8")=BILAT
```

Finally, this is the information as it is returned to Health Summary.

Appendixes

Appendix A: Distributed Reminder Definitions

Appendix B. Distributed Taxonomies

VA-*BREAST CANCER SCREEN

Reminder Type: PROCEDURE

Print Name: Breast Cancer Screen

Related VA-* Reminder: VA-*BREAST CANCER SCREEN

Reminder Description:

Mammogram should be given every 2 years to female patients, ages 50-69.

The "VA-*Breast Cancer Screen" reminder is based on the following "Breast Cancer Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Early detection of breast cancer.

Target Group: All women ages 50-69.

Recommendation: All women ages 50-69 should receive a mammogram

every two years.

Goals for FY2000: At least 60% of women ages 50-69 have received a

mammogram within the preceding two years.

Technical Description:

The findings for mammogram screening are based on defining CPT codes and V-codes from the ICD Diagnosis file that represent mammograms and mammogram screening in a taxonomy for Mammogram/Screen. The CPT codes are used to search the Radiology procedures in the Radiology package, as well as checks for existence of a CPT code in the V CPT file. The V-codes are used to search the Problem List, V POV (problems of visits), and Inpatient Diagnosis PTF files.

The reminder will be "DUE NOW" until a procedure or diagnosis (V-code) is documented to reflect a mammogram/screening done at a current encounter or a historical encounter within the past two years.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 2 years for ages 50 to 69

Match Text: All women ages 50-69 should receive a mammogram

every two years.

No Match Text:

Targeted Result Findings for PROCEDURE reminder type:

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-MAMMOGRAM/SCREEN (TF(16))
             Match freq/age: 2 years for ages 50 to 69
             Rank Frequency:
       Use in Date Due Calc:
                               YES
         Use in Apply Logic:
                 Match Text: History of mammogram/screen on file.
              No Match Text: Date of last mammogram/screen unknown.
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
             Health Factor: INACTIVATE BREAST CANCER SCREEN (HF(42)) Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic: AND NOT
                 Match Text:
              No Match Text:
              Health Factor: ACTIVATE BREAST CANCER SCREEN (HF(43))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(42))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE BREAST CANCER SCREEN))
VA-*CERVICAL CANCER SCREEN
Reminder Type:
                               PROCEDURE
Print Name:
                               Pap Smear
Related VA-* Reminder:
                               VA-*CERVICAL CANCER SCREEN
Reminder Description:
    This reminder is based on the "Cervical Cancer Detection" guidelines
    specified in the VHA HANDBOOK 1101.8, APPENDIX A.
        Target Condition: Early detection of cervical cancer.
        Target Group: Women age 65 and under.
```

Recommendation: Papanicolaou (Pap) smear testing is recommended for all sexually active women every three years until age 65. Pap testing may be discontinued after age 65 if previous smears have been consistently normal.

Goal for FY 2000: 95% of women have received at least one Pap test in their lifetime and 85% of women age 65 and under received one in the past three years.

Technical Description:

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Wait until actually DUE

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 3 years for ages 65 and younger

Match Text: Women ages 65 and younger should receive a

cervical cancer screen every 3 years.

No Match Text: Pap smear screen not indicated for women over

65.

Targeted Result Findings for PROCEDURE reminder type:

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-CERVICAL CANCER SCREEN (TF(30))

Match freq/age: Rank Frequency:

Use in Date Due Calc: YES
Use in Apply Logic:

Match Text:

No Match Text: No record of cervical cancer screen taxonomy on

file

General Match Text:

General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE CERVIX CANCER SCREEN (HF(44))

Match Freq/Age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:
Use in Apply Logic: AND NOT

Match Text:

No Match Text:

Health Factor: ACTIVATE CERVIX CANCER SCREEN (HF(47))

Match Freq/Age:

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic:

Match Text:

No Match Text:

General Match Text:

General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&'(HF(44))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE CERVIX CANCER SCREEN))

VA-*CHOLESTEROL SCREEN (F)

Reminder Type: LABORATORY TEST

Print Name: Cholesterol Screen (Female)

Related VA-* Reminder: VA-*CHOLESTEROL SCREEN (F)

Reminder Description:

This Cholesterol screen reminder for females is based on the following "Hyperlipidemia Detection" guidelines specified in the "VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cardiovascular Disease.

Target Group: Females 45-65.

Recommendation: Check total cholesterol level within the past five years.

Goal for FY 2000: 75% of females ages 45-65 Primary Care clinic patients have had a blood cholesterol level check within the past five years.

Technical Description:

As distributed, this reminder is based on CPT codes which represent cholesterol tests the patient has had documented in PCE. These may be CPT codes for cholesterol done by the Laboratory Service, or a historical encounter documented to show when the cholesterol test was last given to the patient.

Copy this reminder to a new reminder for your site. Add the Laboratory Tests that represent a cholesterol level check in the Result Findings multiple.

PLEASE NOTE: Your local version of this reminder will include the search based on the local ancillary Lab package results, it is possible that 5 years worth of patient lab history are not on record.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 5 years for ages 45 to 65

Match Text: Check total cholesterol every 5 years for women

ages 45-65.

No Match Text: Cholesterol not indicated for women under 45,

or over 65.

```
Targeted Result Findings for LABORATORY TEST reminder type:
   LABORATORY TEST
   Target Result Match Text:
                             LAB: Date of last cholesterol test unknown.
             No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-CHOLESTEROL (TF(24))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
   2 Health Factor Findings:
             Health Factor: INACTIVATE CHOLESTEROL SCREEN (HF(48))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
              No Match Text:
             Health Factor: ACTIVATE CHOLESTEROL SCREEN (HF(46))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(48))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE CHOLESTEROL SCREEN))
```

VA-*CHOLESTEROL SCREEN (M)

Reminder Type: LABORATORY TEST

Print Name: Cholesterol Screen (Male)

Related VA-* Reminder: VA-*CHOLESTEROL SCREEN (M)

Reminder Description:

This Cholesterol screen reminder for males is based on the following "Hyperlipidemia Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cardiovascular Disease.

Target Group: Males ages 35-65.

Recommendation: Check total cholesterol level within the past five years.

Goal for FY 2000: 75% of males ages 35-65 Primary Care clinic patients

have had a blood cholesterol level check within the past five years.

Technical Description:

As distributed, this reminder is based on CPT codes which represent cholesterol tests the patient has had documented in PCE. These may be CPT codes for cholesterol done by the Laboratory Service, or a historical encounter documented to show when the cholesterol test was last given to the patient.

Copy this reminder to a new reminder for your site. Add the Laboratory Tests that represent a cholesterol level check in the Result Findings multiple.

PLEASE NOTE: Your local version of this reminder will include the search based on the local ancillary Lab package results, it is possible that 5 years worth of patient lab history are not on record.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: MALE Ignore on N/A: S

Frequency for Age Range: 5 years for ages 35 to 65

Match Text: Check total cholesterol every 5 years for men

ages 35-65.

No Match Text:

```
Targeted Result Findings for LABORATORY TEST reminder type:
   LABORATORY TEST
   Target Result Match Text:
                             LAB: Date of last cholesterol test unknown.
             No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-CHOLESTEROL (TF(24))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE CHOLESTEROL SCREEN (HF(48))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
             No Match Text:
             Health Factor: ACTIVATE CHOLESTEROL SCREEN (HF(46))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(48))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE CHOLESTEROL SCREEN))
```

VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Type: EXAMINATION

Print Name: Fecal Occult Blood Test

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Description:

Fecal occult blood test due every year for patients ages 50 and older, or 5 years after the last Sigmoidoscopy. The 5 years is a conservative period recommended by a blue ribbon panel publishing their findings in the February 1997 issue of "Gastroenterology" magazine.

This VA-*COLORECTAL CANCER SCREEN - FOBT reminder is based on the "Colorectal Cancer Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Early detection of colon cancer or its predecessors.

Target Group: All persons ages 50 and older.

Recommendation: All persons age 50 and older should receive an annual fecal occult blood test or undergo a sigmoidoscopy examination (periodicity unspecified).

Goals for FY 2000: For persons age 50 and older: 50 percent of those enrolled in primary care clinics have received fecal occult blood testing within the preceding year and 40 percent have received at least one proctosigmoidoscopy examination in their lifetime.

Technical Description:

This reminder is based on Taxonomy Findings from FOBT, "or" SIG cancer screening, "and" FOBT exam results recorded from a clinic encounter as an EXAM. See the definition for VA-*COLORECTAL CANCER SCREEN (SIG.) also. These two reminders work together for assessing cancer screening.

The FOBT is due annually, unless a SIG is found. The SIG found changes the frequency to due once in a lifetime (99Y) according to the M-2 document, but a more conservative approach is encouraged by the National Center for Health Promotion to use 5 years (5Y). The SIG found changes the frequency to due every 5 years for patients 50 and older (note the rank of 2). After a SIG has been received by the patient, if the clinician determines the FOBT should be given to this patient again annually, the FOBT can be activated again by entering the Health Factor "ACTIVATE FOBT CANCER SCREEN" for the patient (Note the rank of 1).

Check the Taxonomy Findings entries representing Fecal Occult Blood Test and VA-FLEXISIGMOIDOSCOPY. The taxonomies represent coded standard entries in the CPT file and ICD Operation/Procedure file. If one of these taxonomies need modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications. THAN, copy the reminder to a new reminder to add your local sites modifications.

because the Occult Blood results are Microbiology tests that do not reflect the Laboratory Test done, or the related CPT code. Target Groups - Baseline: Do In Advance Time Frame: Do if DUE within 1 month Sex Specific: Ignore on N/A: Frequency for Age Range: 1 year for ages 50 and older Match Text: No Match Text: Targeted Result Findings for EXAMINATION reminder type: FOBT(CLINIC) Target Result Match Text: No Match Text Target Conditions: 1 Diagnosis/Procedure Taxonomy Findings: Taxonomy: VA-FOBT (TF(27)) Match freq/age: Rank Frequency: Use in Date Due Calc: YES Use in Apply Logic: Match Text: No Match Text: Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15)) 5 years for ages 50 and older Match freg/age: Rank Frequency: Use in Date Due Calc: YES Use in Apply Logic: Match Text: FOBT due 5 years after the last sigmoidoscopy. No Match Text: Taxonomy: VA-COLORECTAL CANCER SCREEN (TF(31)) Match freq/age: Rank Frequency: Use in Date Due Calc: Use in Apply Logic: Match Text: No Match Text: General Match Text: General No Match Text: Date of last FOBT or SIG, unknown.

This reminder cannot make use of the Laboratory package data at this time

2 Health Factor Findings: Health Factor: INACTIVATE FOBT CANCER SCREEN (HF(49)) Match Freq/Age: Rank Frequency: Use in Date Due Calc: Use in Apply Logic: AND NOT Match Text: No Match Text: Health Factor: ACTIVATE FOBT CANCER SCREEN (HF(50)) Match Freq/Age: 1 year for ages 50 and older 1 Rank Frequency: Use in Date Due Calc: Use in Apply Logic: Match Text: No Match Text: General Match Text: General No Match Text: 3 Computed Findings: Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&'(HF(49)) Expanded Apply Logic: (SEX)&(AGE)&'(HF(INACTIVATE FOBT CANCER SCREEN)) VA-*COLORECTAL CANCER SCREEN (SIG.) Reminder Type: EXAMINATION Print Name: Flexisigmoidoscopy Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (SIG.) Reminder Description: At least one sigmoidoscopy examination in their lifetime for patients age 50 and older, or a fecal occult blood test yearly. This reminder uses 5 years, rather than 99Y for "ONCE" as originally published in the VA Guidelines. The 5 years is a conservative period recommended by a blue ribbon panel publishing their findings in the February 1997 issue of "Gastroenterology" magazine. This reminder is based on the "Colorectal Cancer Detection" guidelines specified in the VHA HANDBOOK, APPENDIX A. Target Condition: Early detection of colon cancer or its predecessors.

Target Group: All persons ages 50 and older.

Recommendation: All persons age 50 and older should receive an annual fecal occult blood test or undergo a sigmoidoscopy examination (periodicity unspecified).

Goals for FY 2000: For persons age 50 and older, 50 percent of those enrolled in primary care clinics have received fecal occult blood testing within the preceding year and 40 percent have received at least one proctosigmoidosopy examination in their lifetime.

Technical Description:

The next time a SIG is due is 1 year from the last FOBT, or 5 years from the last SIG.

The reminder type is EXAM, and the Baseline AGE RANGE and FREQUENCY is 50 and older and 1Y - so that the SIG will be due a year from the last FOBT done in the clinic. The AGE RANGE and FREQUENCY are modified to 50 and older and 5Y if a prior SIG has been received by the patient. The Rank of 2, on the VA-FLEXISIGMOIDOSCOPY taxonomy match fields, will cause a match of a SIG to take precedence over the FOBT findings to establish when the SIG is due again. If the most recent health factor finding, between INACTIVATE and ACTIVATE is INACTIVATE with its rank of 1, the reminder will be "N/A" (not applicable to the patient), and the frequency is 0Y

Check the Taxonomy Findings entries representing flexisigimoidoscopy and FOBT procedures. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If the taxonomies need modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications. Then, copy this reminder to a new reminder for your local sites modifications, and change the Taxonomy Findings to use the new taxonomies.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 and older

Match Text: SIG due every 5 years for patients 50 and

older, or FOBT annually.

No Match Text: Flexisigmoidoscopy not indicted for patients

under 50.

Targeted Result Findings for EXAMINATION reminder type:

EXAM

FOBT(CLINIC)

Target Result Match Text:
No Match Text

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy:
                             VA-FLEXISIGMOIDOSCOPY (TF(15))
             Match freq/age:
                             5 years for ages 50 and older
             Rank Frequency:
       Use in Date Due Calc:
                              YES
        Use in Apply Logic:
                Match Text:
              No Match Text:
                              VA-FOBT (TF(27))
                   Taxonomy:
             Match freq/age:
                              1 year for ages 50 and older
             Rank Frequency:
       Use in Date Due Calc:
                             YES
        Use in Apply Logic:
                Match Text:
              No Match Text:
                   Taxonomy: VA-COLORECTAL CANCER SCREEN (TF(31))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
                             Date of last SIG or FOBT unknown.
    2 Health Factor Findings:
             Health Factor: INACTIVATE SIGMOIDOSCOPY (HF(51))
                             0Y - Not Indicated for ages 50 and older
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
                             AND NOT
        Use in Apply Logic:
                Match Text:
              No Match Text:
             Health Factor: ACTIVATE SIGMOIDOSCOPY (HF(52))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
      Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(51))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE SIGMOIDOSCOPY))
```

VA-*FITNESS AND EXERCISE SCREEN

Reminder Type: EDUCATION

Print Name: Exercise Education

Related VA-* Reminder: VA-*FITNESS AND EXERCISE SCREEN

Reminder Description:

Exercise education given yearly to all patients.

This VA-*FITNESS AND EXERCISE SCREEN reminder is based on the following "Physical Activity Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cardiovascular disease, physical function.

Target Group: General outpatient population.

Recommendation: Primary care clinicians should encourage all individuals to engage in a program of physical activity tailored to their health status and personal life style.

Goals for FY 2000: 50% of primary care providers routinely counsel their patients regarding frequency, duration, type and intensity of physical activity. 30% of Veterans engage in regular moderate physical activity for at least 30 minutes three times a week. 20% of Veterans engage in vigorous activity that promotes cardiorespiratory fitness.

Technical Description:

To modify this reminder from its distributed definition, copy the reminder to a new reminder and then make the modifications necessary to define your sites guideline.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-EXERCISE SCREENING

Target Result Match Text:
No Match Text

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-EXERCISE COUNSELING (TF(32))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE EXERCISE SCREEN (HF(53))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                              AND NOT
                Match Text:
              No Match Text:
              Health Factor: ACTIVATE EXERCISE SCREEN (HF(54))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(53))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE EXERCISE SCREEN))
```

VA-*HYPERTENSION SCREEN

Reminder Type: MEASUREMENT

Print Name: Hypertension Detection

Related VA-* Reminder: VA-*HYPERTENSION SCREEN

Reminder Description:

BP due every two years to detect hypertension.

This VA-*HYPERTENSION SCREEN reminder is defined based on the following "Hypertension Detection" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Hypertension, Cardiovascular Disease

Target Group: General outpatient population

Recommendation: Check blood pressure at least once every two years for all Primary Care clinic patients.

Goal for FY2000: 90% of Primary Care clinic patients have had their blood pressure checked in the past two years.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a blood pressure check. As distributed, the reminder checks for an ICD Diagnosis or a CPT procedure code representing "Hypertension Screen", or a record of a blood pressure (BP) in the Vitals/Measurements package.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-BLOOD PRESSURE CHECK" reminder. This reminder includes an alteration of the blood pressure reminder guidelines when the patient has a history of hypertension on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: Ignore on N/A:

Frequency for Age Range: 2 years for all ages

Match Text: No Match Text:

```
Targeted Result Findings for MEASUREMENT reminder type:
    GMRV VITAL TYPE
        BLOOD PRESSURE
   Target Result Match Text:
                              Vitals: Date of last Vitals BP Measurement
             No Match Text
                              unknown.
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-HYPERTENSION SCREEN (TF(23))
             Match freq/age: 2 years for all ages
             Rank Frequency:
       Use in Date Due Calc: YES
        Use in Apply Logic:
                Match Text:
             No Match Text: Date of last ICD or CPT coded hypertension
                              screen unknown.
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
  Expanded Apply Logic:
    (SEX)&(AGE)
```

VA-*INFLUENZA IMMUNIZATION

Reminder Type: IMMUNIZATION

Print Name: Influenza Immunization

Related VA-* Reminder: VA-*INFLUENZA IMMUNIZATION

Reminder Description:

The "VA-*Influenza Immunization" reminder is based on the following "Influenza Immunization" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Influenza and its complications.

Target Group: Outpatients age 65 and older.

Recommendation: Influenza vaccine should be administered annually in the late fall to all persons age 65 and older.

Goal for FY 2000: 60% of those persons over age 65 have received influenza vaccine in the past year.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received an influenza immunization. As distributed, the reminder checks for an "Influenza" immunization in the V Immunization file or its CPT code equivalent in the V CPT file.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-INFLUENZA VACCINE" reminder. This reminder includes an alteration of the influenza reminder guidelines when the patient has a diagnosis which could cause the patient to be at a high risk for flu or pneumonia.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for ages 65 and older

Match Text: Influenza vaccine due yearly in patients ages

65 and older.

No Match Text: Influenza vaccine not indicated for patients

under 65.

```
Targeted Result Findings for IMMUNIZATION reminder type:
   IMMUNIZATION
        INFLUENZA
   Target Result Match Text:
             No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-INFLUENZA IMMUNIZATION (TF(33))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE INFLUENZA IMMUNIZATION (HF(55))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
             No Match Text:
             Health Factor: ACTIVATE INFLUENZA IMMUNIZATION (HF(56))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(55))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE INFLUENZA IMMUNIZATION))
```

VA-*PNEUMOCOCCAL VACCINE

Reminder Type: IMMUNIZATION

Print Name: Pneumovax

Related VA-* Reminder: VA-*PNEUMOCOCCAL VACCINE

Reminder Description:

This "VA-*PNEUMOCOCCAL VACCINE" reminder is defined based on the following "Pneumococcal Vaccine" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Pneumococcal pneumonia. Target Group: Outpatients age 65 and older.

Recommendation: All persons age 65 and older should receive one vaccination with pneumococcal vaccine in their lifetime.

Goal for FY 2000: 80% of individuals 65 and older have received pneumococcal vaccine.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the pneumococcal vaccine has been given to the patient.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-PNEUMOVAX" reminder, which includes a check for diagnoses documented for the patient that would indicate the pneumococcal vaccine should be given to the patient regardless of the patients age.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: Ignore on N/A:

Frequency for Age Range: 99Y - Once for ages 65 and older
Match Text: Pneumovax due once for patients 65 and over.

No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION

PNEUMOCOCCAL

Target Result Match Text:

No Match Text

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                     Taxonomy: VA-PNEUMOCOCCAL VACCINE (TF(25))
              Match freq/age:
              Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                  Match Text:
               No Match Text:
          General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              \begin{array}{lll} \mbox{Health Factor:} & \mbox{INACTIVATE PNEUMOCOCCAL VACCINE (HF(57))} \\ \mbox{Match Freq/Age:} & \mbox{OY - Not Indicated for all ages} \end{array}
              Rank Frequency:
       Use in Date Due Calc:
          Use in Apply Logic: AND NOT
                  Match Text:
               No Match Text:
               Health Factor: ACTIVATE PNEUMOCOCCAL VACCINE (HF(58))
              Match Freq/Age:
              Rank Frequency:
       Use in Date Due Calc:
          Use in Apply Logic:
                  Match Text:
               No Match Text:
          General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(57))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE PNEUMOCOCCAL VACCINE))
VA-*PROBLEM DRINKING SCREEN
Reminder Type:
                                 EDUCATION
Print Name:
                                 Problem Drinking Screen
Related VA-* Reminder:
                                 VA-*PROBLEM DRINKING SCREEN
```

Reminder Description:

The "VA-*Problem Drinking Screening" education reminder is based on the following "Problem Drinking and Alcohol Moderation Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Problem drinking, alcohol dependence,

medical complications of alcohol use,

accidents and violence.

Target Group: Outpatient experiencing medical or social problems

attributable to alcohol use.

Recommendation: Primary care clinicians should routinely ask their

patients to describe their use of alcohol. High risk patients (3 or more drinks daily)

should be referred for counseling.

Goals for FY 2000: 100% of VHA facilities have an alcohol treatment

program or access to one. 75% of primary care providers should screen for alcohol problems yearly and provide counseling and

referral as needed.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has been screened for problem drinking. The "VA-ALCOHOL ABUSE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-ALCOHOL ABUSE EDUCATION" reminder. This reminder includes a check for a diagnoses documented for the patient that would indicate the patient has a problem related to alcohol abuse. It also references all of the alcohol abuse education topics that are distributed by PCE, which could satisfy the reminder.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Screen for alcohol problems yearly for all

patients.

No Match Text:

```
Targeted Result Findings for EDUCATION reminder type:
   EDUCATION TOPICS
        VA-ALCOHOL ABUSE SCREENING
   Target Result Match Text:
             No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-ALCOHOLISM SCREENING (TF(34))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE PROBLEM DRINKING SCREEN (HF(59))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
             No Match Text:
             Health Factor: ACTIVATE PROBLEM DRINKING SCREEN (HF(60))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(59))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE PROBLEM DRINKING SCREEN))
```

VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Type: EDUCATION

Print Name: Seatbelt and Accident Screen

Related VA-* Reminder: VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Description:

Seatbelt and accident education given yearly to all patients.

This "VA-*SEATBELT AND ACCIDENT SCREEN" reminder is based on the "Seatbelt Use and Accident Avoidance Counseling" guideline specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Motor vehicle associated injuries.

Target Group: General Outpatient population.

Recommendation: All patients should be urged to use seatbelts in automobiles, wear helmets when riding bicycles or motorcycles, and to refrain from driving after drinking.

Goal for FY 2000: 85% of Veterans report regular use of seatbelts in automobiles. 80% of motorcyclists and 50% of bicyclists report use of helmets. 50% of primary care providers routinely provide age-appropriate counseling on safety precautions to prevent unintentional injury.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has had seatbelt and accident screening. The "VA-SEAT BELT USE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder, represented in the "VA-SEATBELT EDUCATION" reminder. This reminder includes a check for seatbelt use education given to the patient, in addition to the screening.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Seatbelt education due yearly for all patients.

No Match Text:

```
Targeted Result Findings for EDUCATION reminder type:
    EDUCATION TOPICS
         VA-SEAT BELT USE SCREENING
   Target Result Match Text:
              No Match Text
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-SAFETY COUNSELING (TF(35))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE SEATBELT SCREEN (HF(61))
             Match Freq/Age: OY - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                              AND NOT
                Match Text:
              No Match Text:
              Health Factor: ACTIVATE SEATBELT SCREEN (HF(62))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(61))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE SEATBELT SCREEN))
```

PCE REMINDER/MAINTENANCE ITEM LIST APR 24,1997 09:58 PAGE 29

VA-*TETANUS DIPHTHERIA IMMUNIZATION

Reminder Type: IMMUNIZATION

Print Name: Tetanus Diphtheria (TD-Adult)

Related VA-* Reminder: VA-*TETANUS DIPHTHERIA IMMUNIZATION

Reminder Description:

TD booster given to all adult patients every ten years.

This reminder is based on "Tetanus and Diphtheria Immunization" guidelines specified in VHA HANDBOOK 1101.8, APPENDIX A.

Target Condition: Infection with tetanus and diphtheria.

Target Group: General outpatient population.

Recommendation: A tetanus and diphtheria (TD) toxoid booster should be administered every ten years throughout adult life. This is commonly offered at each half decade (e.g. ages 45,55,65).

Goal for FY 2000: 50% of individuals have received a tetanus immunization booster in the past ten years.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has been screened for tetanus diphtheria immunization. The "TETANUS DIPHTHERIA (TD-ADULT)" and "TETANUS TOXOID" immunizations or their CPT equivalent are the result finding that will satisfy this reminder.

The Ambulatory Care EP endorses this reminder as it is defined.

If any modifications to the reminder definition are needed, copy the reminder to a new reminder for your site's use, and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 6 months

Sex Specific: Ignore on N/A:

Frequency for Age Range: 10 years for ages 18 and older

Match Text: TD booster due every ten years throughout adult

life.

No Match Text:

```
Targeted Result Findings for IMMUNIZATION reminder type:
    IMMUNIZATION
         TETANUS DIPTHERIA (TD-ADULT)
         TETANUS TOXOID
   Target Result Match Text:
              No Match Text
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-TETANUS DIPHTHERIA (TF(29))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE TD IMMUNIZATION (HF(63))
             Match Freq/Age: OY - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                             AND NOT
                Match Text:
              No Match Text:
              Health Factor: ACTIVATE TD IMMUNIZATION (HF(64))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(63))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE TD IMMUNIZATION))
```

VA-*TOBACCO USE SCREEN

Reminder Type: EDUCATION

Print Name: Tobacco Use Screen

Related VA-* Reminder: VA-*TOBACCO USE SCREEN

Reminder Description:

This reminder is based on "Tobacco Use Counseling" guidelines specified in the VHA HANDBOOK 1101.8, APPENDIX A.

Target Conditions: Cancer, pulmonary and cardiovascular disease.

Target Group: Outpatients who use tobacco.

Recommendation: Tobacco use cessation counseling should be offered annually to all who use tobacco on a regular basis.

Goals for FY 2000: 100% of VHA facilities have an intensive smoking cessation program (or access to one) which includes appropriate pharmacological treatment. 75% of primary care providers routinely advise cessation and provide assistance and follow-up for all their patients who use tobacco. Reduce cigarette smoking to a prevalence of no more than 15% among people age 20 and over.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a tobacco use screen. The "VA-TOBACCO USE SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-TOBACCO EDUCATION" reminder. This reminder includes a check for smoking cessation education, in addition to the screening. It also includes target conditions for patients who have tobacco related diagnoses or health factors on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Tobacco use screen due yearly for all ages.

No Match Text:

```
Targeted Result Findings for EDUCATION reminder type:
    EDUCATION TOPICS
         VA-TOBACCO USE SCREENING
   Target Result Match Text:
             No Match Text
                              No history of tobacco use screen on file.
                              Please evaluate tobacco use and educate if
                              currently in use.
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE TOBACCO USE SCREEN (HF(65))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                             AND NOT
                 Match Text:
              No Match Text:
              Health Factor: ACTIVATE TOBACCO USE SCREEN (HF(66))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(65))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE TOBACCO USE SCREEN))
```

VA-*WEIGHT AND NUTRITION SCREEN

Reminder Type: EDUCATION

Print Name: Weight and Nutrition Screen

Related VA-* Reminder: VA-*WEIGHT AND NUTRITION SCREEN

Reminder Description:

This VA-*WEIGHT AND NUTRITION SCREEN reminder is based on the following "Weight Control and Nutrition Counseling" guidelines defined in the VHA HANDBOOK 1101.8, APPENDIX A.

Target condition: Obesity and associated conditions.

Target Group: General outpatient population.

Recommendation: Primary care clinicians should provide their patients with periodic counseling or referral for counseling regarding dietary intake of calories, fat (especially saturated fat), cholesterol, and fiber. A nutrition counseling service should be available at each

VHA

facility.

Goals for FY 2000: Reduce dietary fat intake to an average of 30 of calories and saturated fats to less than 10%. Increase complex carbohydrate and fiber-containing foods in the diet to 5 or more daily

servings for vegetables and fruits and 6 or more daily servings for grain products. Reduce overweight to a prevalence of no more than 20% among people age 20 and older. Women should be encouraged to consume 1000 mg/day of calcium until menopause and 1500 mg/day thereafter. 100% of VHA facilities should have formal nutrition counseling available for outpatients.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

This reminder represents the minimum criteria for checking if the patient has received a weight and nutrition screen. The "VA-NUTRITION/WEIGHT SCREENING" education topic is the result finding that will satisfy this reminder.

The Ambulatory Care EP recommends a variation on this reminder represented in the "VA-NUTRITION/OBESITY EDUCATION" reminder. This reminder includes a check for nutrition education, in addition to the screening. It also includes target conditions for patients who have nutrition or obesity related diagnoses or health factors on file.

Please review both of these reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

```
Target Groups - Baseline:
   Do In Advance Time Frame: Do if DUE within 1 month
              Sex Specific:
              Ignore on N/A:
    Frequency for Age Range:
                              1 year for all ages
                 Match Text:
                              Weight and Nutrition screen due yearly for all
                              patients.
              No Match Text:
Targeted Result Findings for EDUCATION reminder type:
    EDUCATION TOPICS
        VA-NUTRITION/WEIGHT SCREENING
   Target Result Match Text:
             No Match Text
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-WEIGHT AND NUTRITION SCREEN (TF(36))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE WEIGHT/NUTRITION SCREEN (HF(67))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                              AND NOT
                Match Text:
             No Match Text:
             Health Factor: ACTIVATE WEIGHT/NUTRITION SCREEN (HF(68))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
```

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&'(HF(67))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE WEIGHT/NUTRITION SCREEN))

VA-ADVANCED DIRECTIVES EDUCATION

Reminder Type: EDUCATION

Print Name: Advanced Directives Education

Related VA-* Reminder:

Reminder Description:

Advanced directives information given to all patients once.

Technical Description:

This reminder is distributed with the PCE package. The source of this reminder definition is the Ambulatory Care Expert Panel. It is based on feedback from facilities wanting to track Advanced Directive Education.

This reminder is an education type reminder. It relies on an active education topic entry representing the Advanced Directives education in the Education Topics file.

This reminder will be considered "DUE NOW" if there is no patient education entry for advanced directive education in the "V Patient Ed." file. The V Patient Ed. File summarizes the patient education provided by clinicians at an encounter/visit.

By recording the education topic given at an encounter via a scanned encounter form (or other interface to PCE), the reminder will be considered "not indicated". Historical patient education for advanced directives can be recorded in the PCE User Interface to make the reminder not indicated.

The Clinical Maintenance component in the Health Summary will display the latest date on record where advanced directive education/screening was provided to the patient.

Initial installation comment:

The PCE package is distributed with a preliminary set of education topics, which includes the VA-ADVANCED DIRECTIVES, and VA-ADVANCED DIRECTIVES SCREENING entries.

The VA-ADVANCED DIRECTIVES education is defined as this reminders education topic, in lieu of additional/other Advanced Directive education topics you might want to create and activate at your site.

The VA-ADVANCED DIRECTIVES SCREENING education is defined to help track the fact that an inquiry or screening was made to determine if the patient needed Advanced Directive education/counseling.

If this reminder is used at your site, you may want to add at a minimum, these two education topics on an encounter form for those clinics who would be addressing this reminder.

Target Groups - Baseline:

Do In Advance Time Frame: OM - Wait until actually DUE

Sex Specific: Ignore on N/A:

Frequency for Age Range: 99Y - Once for all ages

Match Text: No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-ADVANCED DIRECTIVES

VA-ADVANCED DIRECTIVES SCREENI

Target Result Match Text:

No Match Text No record of Advanced Directives

education/screening on file.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

General Match Text: General No Match Text:

2 Health Factor Findings:

General Match Text: General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)

Expanded Apply Logic: (SEX)&(AGE)

VA-ALCOHOL ABUSE EDUCATION

Reminder Type: EDUCATION

Print Name: Alcohol Abuse Education

Related VA-* Reminder: VA-*PROBLEM DRINKING SCREEN

Reminder Description:

The VA-Alcohol Abuse Education reminder is based on guidelines defined by the Ambulatory Care Expert Panel. This reminder includes the alcohol abuse screening criteria to meet the "VA-*Problem Drinking Screening" reminder and more education criteria and diagnosis evaluation to determine the need for the reminder.

This reminder is an "education" type reminder. It relies on an active EDUCATION TOPIC (representing Alcohol Abuse education or screening) and use of PCE TAXONOMY and HEALTH FACTORS related to alcohol abuse.

Technical Description:

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Alcohol abuse education due yearly for all

ages.

No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-ALCOHOL ABUSE

VA-ALCOHOL ABUSE COMPLICATIONS

VA-ALCOHOL ABUSE DIET

VA-ALCOHOL ABUSE DISEASE PROCE

VA-ALCOHOL ABUSE EXERCISE

VA-ALCOHOL ABUSE FOLLOW-UP

VA-ALCOHOL ABUSE LIFESTYLE ADA

VA-ALCOHOL ABUSE MEDICATIONS

VA-ALCOHOL ABUSE SCREENING

Target Result Match Text:

No Match Text

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-ALCOHOL ABUSE (TF(17))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
                   Taxonomy:
                              VA-ALCOHOLISM SCREENING (TF(34))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: HISTORY OF AN ALCOHOL PROBLEM (HF(13))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
              Health Factor: DRIVING UNDER THE INFLUENCE (HF(14))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
                              FAMILY HX OF ALCOHOL ABUSE (HF(15))
              Health Factor:
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
                              PREV. SCREEN ETOH PROBLEM (HF(16))
              Health Factor:
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
```

```
Health Factor: HEAVY DRINKER (3 OR MORE/DAY) (HF(17))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
              Health Factor: DRINKING ALONE (HF(18))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
              Health Factor:
                             BINGE DRINKING (HF(19))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
  Expanded Apply Logic:
    (SEX)&(AGE)
```

VA-BLOOD PRESSURE CHECK

Reminder Type: MEASUREMENT

Print Name: Blood Pressure Check

Related VA-* Reminder: VA-*HYPERTENSION SCREEN

Reminder Description:

BP due yearly for patients with no DX of hypertension, any age. BP due at all visits for patients with DX of hypertension or cardiovascular disease, any age.

The VA-Blood Pressure Check reminder is based on baseline guidelines defined by the Ambulatory Care Expert Panel and depends on your site entering Blood Pressure measurement values into the "Vital Measurement" file. This reminder is different than the VA-HYPERTENSION SCREEN reminder which is an Education type reminder which simply checks for the existence of a Hypertension Screening being asked, and not whether the Blood pressure value is documented.

Technical Description:

Review the Taxonomy definition for hypertension and cardiovascular disease in the PCE Taxonomy file. Use the taxonomies as distributed or copy a new taxonomy for local use and make the appropriate modifications.

Either accept the VA- reminder definition or create a local reminder definition by copying the VA- reminder definition to a local reminder.

BP for Blood Pressure should be named as the Result Findings item from the Vital Type file.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: Ignore on N/A:

Frequency for Age Range: 2 years for all ages

Match Text: No Match Text:

Targeted Result Findings for MEASUREMENT reminder type:

GMRV VITAL TYPE
BLOOD PRESSURE

Target Result Match Text:

No Match Text Vitals: Date of last Vitals blood pressure

measurement unknown.

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-HYPERTENSION (TF(1))
             Match freq/age:
                             1 day for all ages
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                 Match Text:
                             History of hypertension on record. BP due every
                              visit in patients with HTN.
              No Match Text: No HX of HTN on file. No HX of hypertension
                              presumed.
                   Taxonomy:
                             VA-HYPERTENSION SCREEN (TF(23))
             Match freq/age:
                             2 years for all ages
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
  Expanded Apply Logic:
    (SEX)&(AGE)
```

VA-BREAST EXAM

Reminder Type: EXAMINATION

Print Name: Breast Exam

Related VA-* Reminder:

Reminder Description:

A breast exam is due yearly for females 40 and older. If the female has a history of breast cancer, check for ongoing follow-up yearly.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

Review the taxonomy findings definition being used to represent breast cancer. Use the List Taxonomy Items option to see the coded values defined for the taxonomy. If a taxonomy needs modifications, copy the taxonomy and make appropriate modifications to the new taxonomy item.

Check the Exam file entries referenced and make modifications as needed for local representation of exams.

If any changes to the reminder definition are needed, copy this reminder to a new reminder for your sites use, and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: OM - Wait until actually DUE

Sex Specific: FEMALE

Ignore on N/A:

Frequency for Age Range: 1 year for ages 40 and older

Match Text: No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM

BREAST EXAM

Target Result Match Text:

No Match Text Date of last breast exam unknown. Please

document last exam or perform today.

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                    Taxonomy: VA-BREAST TUMOR (TF(18))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
  Expanded Apply Logic:
    (SEX)&(AGE)
```

VA-BREAST SELF EXAM EDUCATION

Reminder Type: EDUCATION

Print Name: Breast Self Exam Education

Related VA-* Reminder:

Reminder Description:

The breast self exam education is due yearly for females. If the female has a history of breast cancer, check for ongoing follow-up yearly. If the female has a history of a mastectomy, check for appropriateness of breast self exam education.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

The findings for breast self exam are based on the definition of an education topic in the EDUCATION TOPICS file. Check the result findings file for breast self exam entry which is distributed with this reminder. If new education topics need to be added, use the PCE Table Maintenance options, and then copy this reminder, and make the modifications to the result findings to reference the education topics defined for your site.

Check the taxonomy findings definitions for breast cancer, breast tumor, and mastectomy. Copy the taxonomies and make modifications if needed.

If any changes are needed in the findings definitions, copy this reminder to a site defined reminder item and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: OM - Wait until actually DUE

Sex Specific: FEMALE

Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-SELF BREAST EXAM

Target Result Match Text:

No Match Text Date of last breast self exam education not

known.

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-BREAST TUMOR (TF(18))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
                              Patient known to have HX of breast tumor or
                              breast cancer. Please verify appropriate TX
                              and F/U is ongoing yearly.
              No Match Text:
                             No HX breast cancer presumed.
                   Taxonomy:
                              VA-MASTECTOMY (TF(19))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
                              This patient has had a mastectomy. If
                              appropriate for this patient, please provide
                              Breast Self Exam Education.
              No Match Text:
                              Patient has a HX of breast cancer or other
         General Match Text:
                              breast disease that might complicate breast
                              self exam.
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: HX BREAST CANCER (HF(20))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
              Health Factor:
                             FAMILY HX BREAST CANCER (HF(22))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
              Health Factor:
                             PREV. BREAST CANCER SCREENING (HF(23))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
```

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)

Expanded Apply Logic:
 (SEX)&(AGE)

VA-DIABETIC EYE EXAM

Reminder Type: EXAMINATION

Print Name: Diabetic Eye Exam

Related VA-* Reminder:

Reminder Description:

Patients with the VA-DIABETES taxonomy should have a diabetic eye exam done yearly.

Technical Description:

This reminder is based on the Diabetic Eye Exam reminder from the New York VAMC which was designed to meet the guidelines defined by the PACT panel. Additional input came from the Saginaw VAMC.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: OY - Not Indicated for all ages

Match Text: No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM

DIABETIC EYE EXAM

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-DIABETES (TF(28)) Match freq/age: 1 year for all ages

Rank Frequency: Use in Date Due Calc:

Use in Apply Logic: AND

Match Text: Diabetic eye exam required annually for all

diabetic patients.

No Match Text: No history of diabetes on file.

```
General Match Text:
      General No Match Text:
    2 Health Factor Findings:
        General Match Text:
     General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&(TF(28))
 Expanded Apply Logic:
    (SEX)&(AGE)&(TF(VA-DIABETES))
VA-DIABETIC FOOT CARE ED.
Reminder Type:
Print Name:
                             Diabetic Foot Care Education
Related VA-* Reminder:
Reminder Description:
   Patients with the VA-DIABETES taxonomy should have a diabetic foot care
    education done yearly.
Technical Description:
    This reminder is based on the Diabetic care reminders from the New York
   VAMC which were designed to meet the guidelines defined by the PACT
   panel. Additional input came from the Saginaw VAMC.
Target Groups - Baseline:
   Do In Advance Time Frame: Do if DUE within 1 month
              Sex Specific:
              Ignore on N/A:
   Frequency for Age Range: OY - Not Indicated for all ages
                 Match Text:
              No Match Text:
Targeted Result Findings for EDUCATION reminder type:
   EDUCATION TOPICS
   Target Result Match Text:
             No Match Text
```

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-DIABETES (TF(28))
Match freq/age: 1 year for all ages

Rank Frequency: Use in Date Due Calc:

Use in Apply Logic: AND

Match Text: Diabetic foot care education required annually

for all diabetic patients.

No Match Text: No history of diabetes on file.

General Match Text:
General No Match Text:

2 Health Factor Findings:

General Match Text:
General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&(TF(28))

Expanded Apply Logic:
 (SEX)&(AGE)&(TF(VA-DIABETES))

VA-DIABETIC FOOT EXAM

Reminder Type: EXAMINATION

Print Name: Diabetic Foot Exam

Related VA-* Reminder:

Reminder Description:

Patients with the VA-DIABETES taxonomy should have a complete foot exam done yearly.

Technical Description:

This reminder is based on the Diabetic Foot Exam reminder from the New York VAMC which was designed to meet the guidelines defined by the PACT panel. Additional input came from the Saginaw VAMC.

```
Target Groups - Baseline:
  Do In Advance Time Frame: Do if DUE within 1 month
              Sex Specific:
              Ignore on N/A:
   Frequency for Age Range: OY - Not Indicated for all ages
                Match Text:
             No Match Text:
Targeted Result Findings for EXAMINATION reminder type:
   EXAM
        DIABETIC FOOT EXAM, COMPLETE
   Target Result Match Text:
             No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-DIABETES (TF(28))
             Match freq/age:
                             1 year for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic: AND
                 Match Text: Complete foot exam required annually for all
                              diabetic patients.
              No Match Text: No history of diabetes on file.
        General Match Text:
     General No Match Text:
    2 Health Factor Findings:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&(TF(28))
 Expanded Apply Logic:
    (SEX)&(AGE)&(TF(VA-DIABETES))
```

A-DIGITAL RECTAL (PROSTATE) EXAM

Reminder Type: EXAMINATION

Print Name: Digital Rectal (Prostate) Exam

Related VA-* Reminder:

Reminder Description:

Digital rectal (Prostate) exam should be given yearly to male patients ages 40-75 with no DX of prostate cancer.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

Check the Taxonomy Findings entries representing HX of Prostate Cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Check the Result Findings EXAM entry representing Digital rectal exam. Make modifications to the EXAM file via the PCE Table Maintenance option.

If any modifications were required based on the checks above, then copy the reminder definition to a new reminder, and make the appropriate modifications to the reminder to reflect your site's guidelines.

Target Groups - Baseline:

Do In Advance Time Frame: OM - Wait until actually DUE

Sex Specific: MALE

Ignore on N/A:

Frequency for Age Range: 1 year for ages 40 to 75

Match Text:

No Match Text:

Targeted Result Findings for EXAMINATION reminder type:

EXAM

RECTAL EXAM

Target Result Match Text:

No Match Text Date of last rectal exam not on file.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-PROSTATE CA (TF(8))

Match freq/age: Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic:

Match Text: Patient known to have HX of prostate cancer.

Please verify appropriate TX and F/U is

ongoing.

No Match Text:

General Match Text: General No Match Text:

2 Health Factor Findings:

General Match Text: General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)

Expanded Apply Logic: (SEX)&(AGE)

VA-EXERCISE EDUCATION

Reminder Type: EDUCATION

Print Name: Exercise Education

Related VA-* Reminder: VA-*FITNESS AND EXERCISE SCREEN

Reminder Description:

Exercise education given yearly to all patients.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel. It also supports the following "Fitness and Exercise Counseling" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Findings to satisfy this reminder are defined in Education Topics and via coded values defined in the VA-EXERCISE COUNSELING taxonomy.

This reminder can be inactivated for a patient by using the INACTIVATE EXERCISE SCREEN health factor.

Check the Education Topics defined in the Results Findings multiple. Does your site need to identify new education topics in the Education Topics file to represent Exercise Education?

To update the education topics, use the PCE Table Maintenance options.

To modify this reminder from its distributed definition, copy the reminder to a new reminder and then make the modifications necessary to define your sites guideline.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Exercise education due yearly for all ages.

No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-EXERCISE

VA-EXERCISE SCREENING

Target Result Match Text:

No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-EXERCISE COUNSELING (TF(32))

Match freq/age:
Rank Frequency:
Use in Date Due Calc: YES
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text:
General No Match Text:

2 Health Factor Findings:

Health Factor: INACTIVATE EXERCISE SCREEN (HF(53))
Match Freq/Age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT

Match Text: No Match Text:

Health Factor: ACTIVATE EXERCISE SCREEN (HF(54))

Match Freq/Age:

Rank Frequency:
Use in Date Due Calc:
Use in Apply Logic:
Match Text:
No Match Text:

General Match Text: General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&'(HF(53))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE EXERCISE SCREEN))

VA-FECAL OCCULT BLOOD TEST

Reminder Type: EXAMINATION

Print Name: Fecal Occult Blood Test

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (FOBT)

Reminder Description:

Fecal occult blood test due every year for patients ages 50 and older with no DX of colorectal cancer. This reminder conservatively recommends that if a sigmoidoscopy was received, the next fecal occult blood test would be due a year later.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel. It also satisfies the "Colorectal Cancer Screen - FOBT" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

This reminder depends on Exam findings where an FOBT is completed in the clinic, or on Taxonomy Findings representing FOBT.

Check the Taxonomy Findings entries representing HX of Colorectal Cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Check the Taxonomy Findings entries representing Fecal Occult Blood Test. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local site's modifications.

NOTE: The Laboratory data is not available use in the reminder. When the lab package begins passing CPT codes for fecal occult blood tests to PCE, this reminder is ready to make use of the information.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for ages 50 and older

Match Text: No Match Text:

Targeted Result Findings for EXAMINATION reminder type: EXAM

FOBT(CLINIC)

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-COLORECTAL CA (TF(4))

Match freq/age: OY - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT

Match Text: Patient known to have HX of colorectal cancer. Please verify appropriate TX & F/U is ongoing.

No Match Text: No HX of colorectal cancer on file - presumed

no HX.

```
VA-FOBT (TF(27))
                   Taxonomy:
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                 Match Text:
              No Match Text:
                   Taxonomy:
                              VA-FLEXISIGMOIDOSCOPY (TF(15))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE FOBT CANCER SCREEN (HF(49))
             Match Freq/Age:
                              0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                              AND NOT
                 Match Text:
              No Match Text:
              Health Factor: ACTIVATE FOBT CANCER SCREEN (HF(50))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(49))&'(TF(4))
  Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE FOBT CANCER SCREEN))&'(TF(VA-COLORECTAL CA))
```

VA-FLEXISIGMOIDOSCOPY

Reminder Type: PROCEDURE

Print Name: Flexisigmoidoscopy

Related VA-* Reminder: VA-*COLORECTAL CANCER SCREEN (SIG.)

Reminder Description:

Flexisigmoidoscopy every 5 years for patients age 50 and older, with no DX of colorectal cancer.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel and satisfies the sigmoidoscopy requirements for the "Colorectal Cancer Detection" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings entries representing HX of Colorectal Cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Check the Taxonomy Findings entries representing flexisigimoidoscopy procedures. This represents coded standard entries in the CPT file and ICD Operation/Procedure file. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 5 years for ages 50 and older

Match Text:

No Match Text: Flexisigmoidoscopy not indicted for patients

under 50.

Targeted Result Findings for PROCEDURE reminder type:

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-FLEXISIGMOIDOSCOPY (TF(15))

Match freq/age: Rank Frequency: Use in Date Due Calc: Use in Apply Logic: Match Text:

No Match Text: No flexisigmoidoscopy "CPT" or "ICD O/P" on

file.

```
Taxonomy: VA-COLORECTAL CA (TF(4))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
                              Patient has HX of colorectal cancer. More
                              detailed F/U indicated.
              No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
             Health Factor: INACTIVATE SIGMOIDOSCOPY (HF(51))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                 Match Text:
             No Match Text:
             Health Factor: ACTIVATE SIGMOIDOSCOPY (HF(52))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(51))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE SIGMOIDOSCOPY))
```

VA-INFLUENZA VACCINE

Reminder Type: IMMUNIZATION

Print Name: Influenza Vaccine

Related VA-* Reminder: VA-*INFLUENZA IMMUNIZATION

Reminder Description:

Influenza vaccine given yearly for patients ages 65 and older, and for patients of any age with a history of any of the following: asthma, COPD, DM, ASVCD, CHG, chronic bronchitis, HIV positive or AIDS, renal transplant, or cancer chemotherapy.

This reminder is defined based on guidelines from the Ambulatory Care Expert Panel. It also supports the "Influenza Immunization" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings representing High Risk for Flu/Pneumonia. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for ages 65 and older
Match Text: Influenza vaccine due yearly in patients ages

65 and older.

No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION INFLUENZA

Target Result Match Text: No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HIGH RISK FOR FLU/PNEUMONIA (TF(9))

Match freq/age: 1 year for all ages

Rank Frequency: Use in Date Due Calc: Use in Apply Logic:

> Match Text: Flu shot due yearly in patients any age that

> > have a high risk for flu or pneumonia.

No Match Text:

```
Taxonomy:
                             VA-INFLUENZA IMMUNIZATION (TF(33))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
             No Match Text:
        General Match Text:
     General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE INFLUENZA IMMUNIZATION (HF(55))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
              No Match Text:
             Health Factor: ACTIVATE INFLUENZA IMMUNIZATION (HF(56))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(55))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE INFLUENZA IMMUNIZATION))
```

VA-MAMMOGRAM

Reminder Type: RADIOLOGY PROCEDURE

Print Name: Mammogram

Related VA-* Reminder: VA-*BREAST CANCER SCREEN

Reminder Description:

Mammogram should be given every 2 years to female patients, ages 50-69 with no DX of breast cancer, and yearly for women with a history of breast cancer or breast tumors, ages 35-69.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel. The expert panel recommends a study for patients with "high risk for breast cancer" to occur every 1 to 2 years. A conservative 1 year is defined in this reminder definition.

This reminder also supports the "Breast Cancer Detection" reminder defined in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

The findings for mammogram are based on defining the CPT codes representing mammograms in a taxonomy for Mammograms. The CPT codes are used to search the Radiology procedures in the Radiology package, as well as checks for existence of a CPT code in the V CPT file.

Check the taxonomy findings definition for breast cancer and breast tumor. Copy the taxonomies and make modifications if needed.

If any changes were needed in the findings, copy this reminder to a site defined reminder item and make the appropriate modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 2 years for ages 50 to 69

Match Text: Women ages 50-69 should receive a mammogram

every two years.

No Match Text:

Targeted Result Findings for RADIOLOGY PROCEDURE reminder type:

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy:
                             VA-MAMMOGRAM/SCREEN (TF(16))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
                   Taxonomy:
                             VA-BREAST TUMOR (TF(18))
             Match freq/age:
                              1 year for ages 35 to 69
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
                             History of breast cancer or breast tumor on
                              file. Due yearly for patients ages 35-69.
             No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor:
                             INACTIVATE BREAST CANCER SCREEN (HF(42))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
              No Match Text:
             Health Factor: ACTIVATE BREAST CANCER SCREEN (HF(43))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(42))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE BREAST CANCER SCREEN))
```

VA-NUTRITION/OBESITY EDUCATION

Reminder Type: EDUCATION

Print Name: Nutrition/Obesity Education

Related VA-* Reminder: VA-*WEIGHT AND NUTRITION SCREEN

Reminder Description:

Given yearly to patients of any age who have a history of a nutrition disorder or a history of obesity. Also given to patients who are considered obese based on a Body Mass Index greater than 27, which represents weight greater than 120% of Ideal Body Weight.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel. This reminder also supports the "Weight Control and Nutrition Counseling" guidelines defined in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

The most recent taxonomy finding within a taxonomy is presented for clinical information.

The most recent health factor finding within a health factor category is presented for clinical information. If all 6 of the health factors that are from the NUTRITION health factor category were found for the patient, only the most recent health factor within the "NUTRITION" health factor category would be used by the reminder. Since the activate and inactivate health factors are defined under the "REMINDER CATEGORY" they are evaluated and the most recent of these two factors would also be used by the reminder.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: Weight and Nutrition education due yearly for

all ages.

No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-NUTRITION/OBESITY

VA-NUTRITION/WEIGHT SCREENING

Target Result Match Text:
No Match Text

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

```
Taxonomy: VA-OBESITY (TF(20))
         Match freq/age:
         Rank Frequency:
  Use in Date Due Calc:
    Use in Apply Logic:
            Match Text:
                          Patient has a history of obesity.
          No Match Text: No HX of obesity on file.
               Taxonomy: VA-NUTRITION (TF(21))
         Match freq/age:
         Rank Frequency:
  Use in Date Due Calc:
    Use in Apply Logic:
            Match Text: Patient has a history of a nutrition disorder.
         No Match Text: No HX of nutrition disorder on file.
               Taxonomy:
                          VA-WEIGHT AND NUTRITION SCREEN (TF(36))
         Match freg/age:
         Rank Frequency:
  Use in Date Due Calc:
                          YES
    Use in Apply Logic:
            Match Text:
         No Match Text:
    General Match Text:
 General No Match Text:
2 Health Factor Findings:
         Health Factor: HX NUTRITIONAL DISORDER (HF(25))
         Match Freq/Age:
         Rank Frequency:
  Use in Date Due Calc:
    Use in Apply Logic:
            Match Text:
         No Match Text:
                         PREV. SCREEN NUTR. DISORDER (HF(26))
         Health Factor:
         Match Freq/Age:
         Rank Frequency:
  Use in Date Due Calc:
    Use in Apply Logic:
             Match Text:
         No Match Text:
         Health Factor:
                         IRREGULAR MEALS (HF(27))
         Match Freq/Age:
         Rank Frequency:
   Use in Date Due Calc:
    Use in Apply Logic:
            Match Text:
         No Match Text:
```

```
Health Factor:
                              FREQUENT DIETING (HF(28))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
              Health Factor: FOOD CRAVINGS (HF(29))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
                              CURRENTLY PREGNANT (HF(30))
              Health Factor:
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
              Health Factor:
                              INACTIVATE WEIGHT/NUTRITION SCREEN (HF(67))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                              AND NOT
                Match Text:
              No Match Text:
              Health Factor: ACTIVATE WEIGHT/NUTRITION SCREEN (HF(68))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
         Short Description:
                              Calculate BMI>27
                    Routine:
                              OBESE; PXRMOBES
             Match Freq/Age:
                Match Text:
              No Match Text:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(67))
```

Expanded Apply Logic:
 (SEX)&(AGE)&'(HF(INACTIVATE WEIGHT/NUTRITION SCREEN))

VA-PAP SMEAR

Reminder Type: PROCEDURE

Print Name: Pap Smear

Related VA-* Reminder: VA-*CERVICAL CANCER SCREEN

Reminder Description:

Pap smear/pelvic exam every three years for female patients, age 65 and under, with no DX of cervical cancer or abnormal pap smear and no previous abnormal pap smear lab test.

If patient has had hysterectomy for benign disease, no pap smear is indicated.

This reminder is based on the Ambulatory Care EP and supports the "Cervical Cancer Screen" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

Check the Taxonomy Findings representing history of hysterectomy for benign disease, and history of cervical cancer or abnormal PAP. If these taxonomies need modifications, copy each to a new taxonomy for your local site, and make the appropriate modifications.

Define Health Factors that may represent Sexual Activity. To add new Health Factors use the PCE Table Maintenance option.

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Wait until actually DUE

Sex Specific: FEMALE Ignore on N/A: S

Frequency for Age Range: 3 years for ages 65 and younger

Match Text: Pap smear/pelvic exam due every 3 years for

women ages 65 and younger.

No Match Text: Pap smear screen not indicated for women over

65.

Targeted Result Findings for PROCEDURE reminder type:

```
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-HYSTERECTOMY (TF(6))
             Match freq/age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                             Pap not indicated in women with HX hysterectomy
                 Match Text:
                              for benign disease.
              No Match Text: No HX of hysterectomy - presumed no such HX.
                             VA-CERVICAL CA/ABNORMAL PAP (TF(5))
                   Taxonomy:
             Match freq/age:
                             0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
                              Patient has HX of cervical cancer. Please
                              verify appropriate TX & F/U is ongoing.
              No Match Text: No HX of cervical cancer on file - no HX
                              cervical cancer presumed.
                   Taxonomy:
                             VA-CERVICAL CANCER SCREEN (TF(30))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
                              Date of last cervical cancer screen taxonomy
                              unknown.
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE CERVIX CANCER SCREEN (HF(44))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
             No Match Text:
                             ACTIVATE CERVIX CANCER SCREEN (HF(47))
             Health Factor:
             Match Freq/Age:
            Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
```

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&'(HF(44))&'(TF(6))&'(TF(5))

Expanded Apply Logic:

(SEX)&(AGE)&'(HF(INACTIVATE CERVIX CANCER

SCREEN))&'(TF(VA-HYSTERECTOMY))&' (TF(VA-CERVICAL CA/ABNORMAL PAP))

VA-PNEUMOVAX

Reminder Type: IMMUNIZATION

Print Name: Pneumovax

Related VA-* Reminder: VA-*PNEUMOCOCCAL VACCINE

Reminder Description:

Pneumovax given once to patients 65 and over, and to patients of any age with a history of any of the following diagnoses: asthma, COPD, DM, ASCVD, CHG, chronic bronchitis, HIV positive or AIDS, renal transplant, or cancer chemotherapy.

This reminder is defined based on guidelines from the Ambulatory Care Expert Panel. It also supports the "Pneumococcal Vaccine" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

Check the Taxonomy Findings representing High Risk for Flu/Pneumonia. If the taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 3 months

Sex Specific: Ignore on N/A:

Frequency for Age Range: 99Y - Once for ages 65 and older
Match Text: Pneumovax due once for patients 65 and over.

No Match Text:

Targeted Result Findings for IMMUNIZATION reminder type:

IMMUNIZATION PNEUMOCOCCAL

Target Result Match Text:

No Match Text

```
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-HIGH RISK FOR FLU/PNEUMONIA (TF(9))
             Match freq/age:
                             99Y - Once for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
                             Pneumovax due once in high risk patients.
             No Match Text: No high risk DX for flu/pneumonia on file.
                              Presumed low risk.
                   Taxonomy: VA-PNEUMOCOCCAL VACCINE (TF(25))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
                              YES
        Use in Apply Logic:
                Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
             Health Factor: INACTIVATE PNEUMOCOCCAL VACCINE (HF(57))
             Match Freg/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                 Match Text:
             No Match Text:
             Health Factor: ACTIVATE PNEUMOCOCCAL VACCINE (HF(58))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(57))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE PNEUMOCOCCAL VACCINE))
```

VA-PPD

Reminder Type: SKIN TEST

Print Name: PPD

Related VA-* Reminder:

Reminder Description:

PPD given yearly to patients of any age who have a "High risk DX for TB"; such as HIV positive or AIDS, homelessness, or alcohol abuse who do not have a DX of tuberculosis and no prior positive TB skin test.

This reminder is based on guidelines provided by the Ambulatory Care Expert Panel.

Technical Description:

Check the Taxonomy Findings representing High Risk for TB. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Define health factors which may represent high risk for TB in the Health Factors file via the PCE Table Maintenance options.

Copy the reminder to a new reminder for your local site modifications.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: OY - Not Indicated for all ages

Match Text: No Match Text:

Targeted Result Findings for SKIN TEST reminder type:

SKIN TEST PPD

Target Result Match Text:

No Match Text Last date of PPD not known.

Target Conditions:

1 Diagnosis/Procedure Taxonomy Findings:

Taxonomy: VA-HIGH RISK FOR TB (TF(11))

Match freq/age: 1 year for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND

Match Text: Patient has high risk for TB diagnosis, PPD due

yearly.

No Match Text: Patient may be low risk for TB, where PPD may

not be indicated.

Taxonomy: VA-TB/POSITIVE PPD (TF(10)) Match freq/age: 0Y - Not Indicated for all ages

Rank Frequency:

Use in Date Due Calc:

Use in Apply Logic: AND NOT Match Text: Patient has HX of TB or positive PPD diagnosis. No Match Text: No HX of TB or positive PPD diagnosis on file.

General Match Text: General No Match Text:

2 Health Factor Findings:

General Match Text: General No Match Text:

3 Computed Findings:

Default APPLY LOGIC to see if the Reminder should apply to a patient: (SEX)&(AGE)&(TF(11))&'(TF(10))

Expanded Apply Logic:

(SEX)&(AGE)&(TF(VA-HIGH RISK FOR TB))&'(TF(VA-TB/POSITIVE PPD))

VA-PSA

Reminder Type: LABORATORY TEST

Print Name: PSA

Related VA-* Reminder:

Reminder Description:

Prostate specific antigen, PSA, due yearly for men ages 50-75, who do not have a history of prostate cancer.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel.

Technical Description:

Check the Taxonomy Findings entries representing HX of prostate cancer. If this taxonomy needs modification, copy the taxonomy to a new taxonomy for your site, and make the appropriate modifications.

Copy the reminder to a new reminder for your local sites modifications.

Use the new reminder to update the Result Findings Laboratory Test entry representing PSA tests.

```
Target Groups - Baseline:
   Do In Advance Time Frame: OM - Wait until actually DUE
              Sex Specific: MALE
              Ignore on N/A:
   Frequency for Age Range:
                             1 year for ages 50 to 75
                 Match Text:
              No Match Text:
Targeted Result Findings for LABORATORY TEST reminder type:
   LABORATORY TEST
   Target Result Match Text:
             No Match Text
                              Date of last PSA not on file. Please order
                              test or document historical encounter activity.
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-PROSTATE CA (TF(8))
             Match freq/age:
                             0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
                              Patient known to have HX of prostate cancer.
                              Please verify appropriate TX and follow-up is
                              ongoing.
              No Match Text:
        General Match Text:
      General No Match Text:
    2 Health Factor Findings:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
 Expanded Apply Logic:
    (SEX)&(AGE)
```

VA-SEATBELT EDUCATION

Reminder Type: EDUCATION

Print Name: Seat Belt Education

Related VA-* Reminder: VA-*SEATBELT AND ACCIDENT SCREEN

Reminder Description:

Seat belt education given yearly to all patients.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel and is further supported by the "Seatbelt Use and Accident Avoidance Counseling" guideline specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Target Condition: Motor vehicle associated injuries.

Target Group: General Outpatient population.

Recommendation: All patients should be urged to use seatbelts in automobiles, wear helmets when riding bicycles or motorcycles, and to refrain from driving after drinking.

Goal for FY 2000: 85% of Veterans report regular use of seatbelts in automobiles. 80% of motorcyclists and 50% of bicyclists report use of helmets. 50% of primary care providers routinely provide age-appropriate counseling on safety precautions to prevent unintentional injury.

Technical Description:

If this reminder is not going to be used at your facility, the INACTIVE FLAG should be set to inactive.

The VA-SEAT BELT EDUCATION" reminder is a variation of the "VA-SEAT BELT AND ACCIDENT SCREEN" reminder. The VA-SEAT BELT EDUCATION" reminder is recommended by the Ambulatory Care EP to check for seat belt use education given to the patient, in addition to the screening.

Please review both of these related reminder definitions, choose one of them to use. If local modifications need to be made, copy the preferred reminder to a new reminder and make your reminder modifications.

It may be useful to add Health Factors that indicate whether the patient is still driving, rides motorcycles, or rides bicycles for local site use. This would involve adding new Health Factors to the Health Factor file (#9999999.64) and then adding the Health Factors to a local site definition of the seat belt reminder.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

```
Age Range: 1 year for all ages
Match Text: Seat belt education due yearly for all ages.
    Frequency for Age Range:
              No Match Text:
Targeted Result Findings for EDUCATION reminder type:
    EDUCATION TOPICS
         VA-SEAT BELT USE
         VA-SEAT BELT USE SCREENING
   Target Result Match Text:
              No Match Text
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-SAFETY COUNSELING (TF(35))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: INACTIVATE SEATBELT SCREEN (HF(61))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                              AND NOT
                 Match Text:
              No Match Text:
              Health Factor: ACTIVATE SEATBELT SCREEN (HF(62))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
         General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(61))
 Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(INACTIVATE SEATBELT SCREEN))
```

VA-TOBACCO EDUCATION

Reminder Type: EDUCATION

Print Name: Tobacco Cessation Education

Related VA-* Reminder: VA-*TOBACCO USE SCREEN

Reminder Description:

Tobacco use cessation education should be offered annually to any patient who has a diagnosis or health factor associated with chronic tobacco use.

This reminder is based on guidelines defined by the Ambulatory Care Expert Panel and satisfies the "Smoking and Tobacco Use Counseling" guidelines specified in the "Guidelines for Health Promotion and Disease Prevention", M-2, Part IV, Chapter 9.

Modifications to these guidelines for your local site may be reflected in a new reminder definition.

Technical Description:

Check the ICD Diagnosis entries defined in the PCE Taxonomy file for VA-TOBACCO USE. Reflect any changes in a new taxonomy definition.

Check/Modify the health factors defined within the Tobacco category in the Health Factors file. The Health Factors file can be modified using the PCE Table Maintenance options.

If the reminder needs modifications, copy it and modify the new reminder to meet local site guidelines.

Target Groups - Baseline:

Do In Advance Time Frame: Do if DUE within 1 month

Sex Specific: Ignore on N/A:

Frequency for Age Range: 1 year for all ages

Match Text: No Match Text:

Targeted Result Findings for EDUCATION reminder type:

EDUCATION TOPICS

VA-TOBACCO USE SCREENING VA-SMOKING CESSATION

Target Result Match Text:

No Match Text No history of tobacco education/screen on file.

Please evaluate tobacco use and educate if

currently in use.

```
Target Conditions:
    1 Diagnosis/Procedure Taxonomy Findings:
                   Taxonomy: VA-TOBACCO USE (TF(22))
             Match freq/age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
                              Patient has a history of tobacco use.
              No Match Text:
                             No history of tobacco use found. Presumed to be
                              former or current smoker. Please indicate via
                              health factor (Lifetime non-smoker, or other
                              health factor) if the tobacco education is not
                              indicated.
         General Match Text:
      General No Match Text:
    2 Health Factor Findings:
              Health Factor: HISTORY OF SMOKING (HF(31))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
             No Match Text: No history of smoking found.
             Health Factor: HX OF SEC. SMOKE INHALATIION (HF(32))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
         Use in Apply Logic:
                 Match Text:
              No Match Text:
                             Patient has no history of secondary smoke
                              inhalation.
              Health Factor: LIFETIME NON-SMOKER (HF(5))
             Match Freq/Age:
                              0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
                              AND NOT
        Use in Apply Logic:
                 Match Text:
                              Patient is lifetime non-smoker, tobacco
                              education not indicated.
              No Match Text:
             Health Factor:
                             CURRENT SMOKER (HF(2))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
              No Match Text:
```

```
Health Factor:
                             CURRENT NON-SMOKER (HF(3))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
              No Match Text:
             Health Factor: LIFETIME NON-TOBACCO USER (HF(37))
             Match Freq/Age: 0Y - Not Indicated for all ages
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                              AND NOT
                 Match Text: Patient is lifetime non-tobacco user, tobacco
                              education not indicated.
              No Match Text:
             Health Factor: SMOKELESS TOBACCO USER (HF(38))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
             No Match Text:
             Health Factor:
                             HX OF CHEWING TOBACCO (HF(33))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                Match Text:
             No Match Text:
             Health Factor:
                              CURRENT SMOKELESS TOBACCO USER (HF(39))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                 Match Text:
              No Match Text:
             Health Factor:
                             INACTIVATE TOBACCO USE SCREEN (HF(65))
             Match Freq/Age:
             Rank Frequency:
       Use in Date Due Calc:
        Use in Apply Logic:
                             AND NOT
                Match Text:
              No Match Text:
        General Match Text:
      General No Match Text:
      Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)&'(HF(5))&'(HF(37))&'(HF(65))
```

```
Expanded Apply Logic:
    (SEX)&(AGE)&'(HF(LIFETIME NON-SMOKER))&'(HF(LIFETIME NON-TOBACCO USER))&'
    (HF(INACTIVATE TOBACCO USE SCREEN))
VA-WEIGHT
-----
Reminder Type:
                             MEASUREMENT
Print Name:
                              Weight
Related VA-* Reminder:
Reminder Description:
   The patient's weight should be documented yearly.
Technical Description:
   This reminder is based on guidelines defined by the Ambulatory Care
   Expert Panel.
Target Groups - Baseline:
  Do In Advance Time Frame: Do if DUE within 1 month
              Sex Specific:
              Ignore on N/A:
   Frequency for Age Range: 1 year for all ages
                Match Text:
             No Match Text:
Targeted Result Findings for MEASUREMENT reminder type:
   GMRV VITAL TYPE
        WEIGHT
   Target Result Match Text:
             No Match Text
                            No weight measurement on record, please record
                              now.
Target Conditions:
   1 Diagnosis/Procedure Taxonomy Findings:
         General Match Text:
     General No Match Text:
    2 Health Factor Findings:
        General Match Text:
      General No Match Text:
    3 Computed Findings:
Default APPLY LOGIC to see if the Reminder should apply to a patient:
    (SEX)&(AGE)
Expanded Apply Logic:
    (SEX)&(AGE)
```

Appendix B. Distributed Taxonomies

PCE TAXONOMY LIST NAME			APR 21,1997 10:58 PAGE 1	
	CODED	HIGH CODED	COUNCE ELLE	
	VALUE	VALUE	SOURCE FILE	
VA-ALCOHO	LISM SCREENING			
	V79.1	V79.1	ICD DIAGNOSIS	
VA-BREAST	'TUMOR			
	174	174.9	ICD DIAGNOSIS	
	198.81	198.81	ICD DIAGNOSIS	
	238.3	238.3	ICD DIAGNOSIS	
	239.3	239.3	ICD DIAGNOSIS	
	233.0	233.0	ICD DIAGNOSIS	
	217	217	ICD DIAGNOSIS	
	610	610.9	ICD DIAGNOSIS	
	611	611 F	ICD DIAGNOSIS	
	611.5	611 72	TCD DIAGNOSIS	
	611.71 611.9	611 9	ICD DIAGNOSIS	
	675.1	675.14	ICD DIAGNOSIS	
	757.6	757.6	ICD DIAGNOSIS	
	922.0	922.0	ICD DIAGNOSIS	
	793.8	793.8	ICD DIAGNOSIS	
	V10.3	174.9 198.81 238.3 239.3 233.0 217 610.9 611.5 611.72 611.9 675.14 757.6 922.0 793.8 V10.3	ICD DIAGNOSIS	
VA-CERVIC	AL CA/ABNORMAL P 180 198.82 233.1 795.0	AP		
	180	180.9	ICD DIAGNOSIS	
	198.82	198.82	ICD DIAGNOSIS	
	233.1	233.3	ICD DIAGNOSIS	
	795.0	795.0	ICD DIAGNOSIS	
VA-CERVIC	AL CANCER SCREEN	ſ		
	Q0091	Q0091 V76.2 Q0061	CPT ICD DIAGNOSIS	
	V76.2	V76.2		
	Q0060	Q0061	CPT	
			CPT	
	88150 91.46		CPT ICD OPERATION/PROCEDURE	
	91.40	91.40	ICD OPERATION/PROCEDURE	
VA-CHOLESTEROL				
			CPT	
	83718		CPT	
			CPT	
	82465		CPT	
	83700	83705	CPT	
VA-COLORECTAL CA				
	154.0	154.8 197.5	ICD DIAGNOSIS	
		197.5	ICD DIAGNOSIS ICD DIAGNOSIS	
	230.3	∠ 30.4	ICD DIAGNOSIS	

Appendix B. Distributed Taxonomies, cont'd

PCE TAXONOMY LIST NAME			APR 21,1997 10:58 PAGE 1	
	CODED	HIGH CODED VALUE	SOURCE FILE	
VA-COLORECTAL CANCER SCREEN V76.41 V76.41			ICD DIAGNOSIS	
VA-DIABETES				
	250	250.9	ICD DIAGNOSIS	
VA-EXERCI	SE COUNSELING			
	V65.41	V65.41	ICD DIAGNOSIS	
VA-FLEXIS	IGMOIDOSCOPY			
		45.24	ICD OPERATION/PROCEDURE	
	45330	45385	CPT	
VA-FOBT				
VII TODI	82270	82273	CPT	
VA-HTCH P	ISK FOR FLU/PNEU	MONT A		
VA IIIOII K	493.0	493.91	ICD DIAGNOSIS	
	496	496	ICD DIAGNOSIS	
	250.00	250.9	ICD DIAGNOSIS	
	429.2	429.2	ICD DIAGNOSIS	
	428.0	428.9	ICD DIAGNOSIS	
	491.0	491.9	ICD DIAGNOSIS	
	044.9	044.9	ICD DIAGNOSIS	
	042.0	043.9	ICD DIAGNOSIS	
	V42.0	V42.0	ICD DIAGNOSIS	
	585	585	ICD DIAGNOSIS	
	V58.1	V58.1	ICD DIAGNOSIS	
	V66.2	V66.2	ICD DIAGNOSIS	
	99.52	99.52 V67.2	ICD DIAGNOSIS	
	V67.2	V07.2	ICD DIAGNOSIS	
VA-HIGH R	ISK FOR TB			
	044.9	044.9	ICD DIAGNOSIS	
	042.0	043.9 V60.0 304.90	ICD DIAGNOSIS	
	V60.0	V60.0	ICD DIAGNOSIS	
	303.0	304.90	ICD DIAGNOSIS	
	305.0	305.0	ICD DIAGNOSIS	
VA-HYPERTENSION				
	401.0	405.99	ICD DIAGNOSIS	
VA-HYPERTENSION SCREEN				
	V81.1	V81.1	ICD DIAGNOSIS	
	80060	80060	CPT	
VA-HYSTERECTOMY				
VA-HYSTER	ECTOMY 68.3	68.9	ICD OPERATION/PROCEDURE	
	00.5	00.9	ICD OF BIGHTOM/ FROCEDURE	

Appendix B. Distributed Taxonomies, cont'd

PCE TAXON	OMY LIST		APR 21,1997 10:58 PAGE 1	
	LOW	HIGH		
		CODED	COURGE ELLE	
	VALUE	VALUE	SOURCE FILE	
VA-INFLUE	NZA IMMUNIZATION			
	V04.8	V04.8		
			CPT	
	Q0034 G0008	Q0034 G0008	CPT CPT	
	30000	30000		
VA-MAMMOG	RAM/SCREEN			
			CPT	
	V76.1	V76.1	ICD DIAGNOSIS	
VA-MASTEC	TOMY			
			ICD OPERATION/PROCEDURE	
	85.41	85.48	ICD OPERATION/PROCEDURE	
	19140 19160	19140 19160	CPT CPT	
	19162	19162	CPT	
	19180		CPT	
	19182		CPT	
	19200	19200	CPT	
	19220 T1950	19220 T1999	CPT CPT	
	11930	11000	CFI	
VA-NUTRIT				
	260	260	ICD DIAGNOSIS	
	261 263		ICD DIAGNOSIS ICD DIAGNOSIS	
	263.8		ICD DIAGNOSIS	
	263.9		ICD DIAGNOSIS	
	264	264.9	ICD DIAGNOSIS	
	265		ICD DIAGNOSIS	
	266 267	266.9 267	ICD DIAGNOSIS ICD DIAGNOSIS	
	268			
	269	269.9	ICD DIAGNOSIS ICD DIAGNOSIS	
	281.1		ICD DIAGNOSIS	
	783.0	783.4	ICD DIAGNOSIS	
	377.33 425.7		ICD DIAGNOSIS ICD DIAGNOSIS	
	760.4	760.4	ICD DIAGNOSIS	
	783.6	783.9	ICD DIAGNOSIS	
	V69.1	V69.1		
VA-OBESITY				
*** ODEDII	278.0	278.01	ICD DIAGNOSIS	
	783.1	783.1	ICD DIAGNOSIS	
	43842	43842	CPT	
	43846	43846	CPT	
	44131 99078	44131 99078	CPT CPT	
				

Appendix B. Distributed Taxonomies, cont'd

VA-PNEUMO	99.59 G0009 90732	90732	ICD OPERATION/PROCEDURE CPT		
VA-PROSTA	185 198.82		ICD DIAGNOSIS ICD DIAGNOSIS ICD DIAGNOSIS		
PCE TAXON	OMY LIST		APR 21,1997 10:58 PAGE 1		
147-11-11-2	CODED VALUE	HIGH CODED VALUE	SOURCE FILE		
VA-PSA	84153				
VA-SAFETY	COUNSELING V65.43	V65.43	ICD DIAGNOSIS		
VA-TB/POS	VA-TB/POSITIVE PPD				
	010.0 795.5	018.9 795.5	ICD DIAGNOSIS ICD DIAGNOSIS		
VA-TETANU	S DIPHTHERIA				
	90711 90718 99.36 V03.5 V03.7	90703 90711 90721 99.38 V03.5 V03.7	CPT CPT ICD OPERATION/PROCEDURE ICD DIAGNOSIS ICD DIAGNOSIS		
VA-TOBACC	305.1 305.10	305.1 305.11	ICD DIAGNOSIS ICD DIAGNOSIS		
	V15.82	V15.82	ICD DIAGNOSIS		
VA-WEIGHT AND NUTRITION SCREEN					
	V65.3 V77.8	V65.3 V77.9	ICD DIAGNOSIS ICD DIAGNOSIS		